Issued 3/45 by the Division of Naval Intelligence

ONI 208-J Supplement No. 2 FAR-EASTERN SMALL CRAFT

531

Contents

APR 1945

Minor Combatant Warship Types Merchant Ships Under 1,000 Gross Tons —Passenger Vessels —Cargo Vessels —Barges —Fishing Vessels —Utility Vessels Native Craft, by Geographic Areas

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A complete statistical index of all Far-Eastern Small Craft is issued in an accompanying CONFIDENTIAL booklet.

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STANDARD CLASSES of JAPANESE MERCHANT SHIPS

Contains drawings, characteristics, and names of merchant vessels being constructed in quantity by the Japanese.

ONI 208-J (Revised) Supplement 3

May be incorporated in the basic manual provided classification is maintained

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Division of Naval Intelligence January 1945

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JAPANESE STANDARD MERCHANT SHIP CONSTRUCTION

In the latter part of 1949 and during 1944 a quantity of new and uninform Japanese merchant ships: have been observed, many, of this radically different in design from the test, modern vessels of the pre-war era. Sufficient numbers of the same type of ship have been noted to permit the formation of definite conclusions as to the amount and character of standardization accomplished in Japanese wartime merchan ship construction. In addition, recent captured documents have listed the types adopted as standard and outlined sufficient characteristics to make possible the identification of individual classes.

Pre-war Construction

The unusual features of these new vessels can best be illustrated by comparison with the character of pre-war shipbuilding in Japan. Prior to 1941, no actual and effective standardization had been accomplished; for, while shipbuilding was subsidized by the government, design was largely determined by the shipping concerns or builders. The nature of Japan's merchant marine activities before the war dictated specifications in ship design which resulted in a standardization of general types as opposed to the adoption of an individual design. This has made possible the formulation of the JMST system of reporting Japanese vessels, a method which recognizes the similarity in characteristics of vessels within a given tonnage range. Freighter design on the whole was concentrated in Diesel-powered ships averaging 6,000 gross tons, with streamlined superstructure amidships, cruiser sterns, and with hulls built for speed. Few engines-aft cargo carriers were constructed outside of the AMAKASU MARU NO. 1 class of 1,900 gross tons, of which about 40 were built before the war. Tanker design tended to 10,000-ton ships with speeds of 17 knots normal cruising and 20 knots maximum-mostly fitted with Diesel engines. It is interesting to note that in the bytars prior to the outbreak of war approximately 380 ships of over 1,000 on the built, involving over 100 different classes; 18 of at these classes were composed of 5 or more ships, but in any way more than 10 built. At variance with this

pre-war record is the tendency in new construction to adopt a few individual designs and to produce as great a quantity of these as construction facilities and possible use of mass production methods will allow.

Wartime Design

With her sea lanes enormously extended soon after the outbreak of war, and with the successful activity of United States submarine patrols becoming obvious, Japan must have foreseen the inroads which would be made upon her supply of merchant vessels. Since approximately 2 years are required to design and initiate construction on standard types of ships, work was apparently begun on the radically new designs early in 1942; for it is believed that they did not begin coming off the ways until the early spring of 1944. Between the fall of 1941 and the start of construction on the new types shipbuilding is thought to have continued along the lines of the older designs: for, of the nine standard classes so far identified, two are almost identical with pre-war design, and two, although never before observed, show no radical change in design characteristics. It should also be remembered that between 7 December 1941, and 1 July 1944, approximately 125 ships of nonstandard construction totaling 430,000 gross tons have been built. Construction of vessels of individual design will undoubtedly continue, to a limited extent, in the future.

In the preparation of designs for new ships, especially standard designs from which vessels are to be built in quantity, consideration must be given the requirements of the ship itself, such as speed, cargo capacity, ange, etc., and the wartime facilities for construction including speed of enstruction, availability of various types of engines, facilities for casting or forging parts, and the like. In the new Japanese designs, cargo capacity and speed of construction have been given paramount consideration at a considerable sacrifice in the speed of the ships themselves.

A glance at the drawings included in the discussion of individual types which follows will show the emphasis which has been placed on *engines-aft design*.

ONI 208–J Supplement 3

All but two of the standard classes so fireid mineral are of angines aft construction. While this is a logical type for group matching are of angines at a short are of facilities for forging and longer propeller sharts needed in vessels with engines amidship.

Typical of the new hull design is its angularity and its broad beam in relation to length. The latter is particularly apparent when compared with vessels of the pre-war period, and again is an indication of the need for large carrying capacity at a sacrifice in speed. The hull shape suggests the adoption of flat as opposed to curved surfaces throughout the vessel, which increase the rapidity and ease of construction, even by inexperienced builders. This design can easily be noted in the photograph which accompanies the description of Type E being mass-produced at Wakamatsu. In the discussion of individual types which follows, the word "economy" has been adopted as descriptive of this shape of hull.

It is interesting to note that in all cases where captured statistical data can be ascribed with relative certainty to observed design, the term "Modified" has applied to vessels with "economy" hull shapes. Cruising speeds specified for the various types are a further indication, since those for the regular types are consistently 2 to 3 knots higher than those for the Modified classes. From this it may be assumed that the designs for Types A, B, C, D, E, TL, TM, and TS are of normal construction. Designs with economy hulls have been identified for Type A (Modified), D (Modified), E (Modified), and TM (Modified). Additional "economy" designs have been observed which closely approximate most specifications for Types B and TS. These are, in all probability, later modifications which were either in the experimental stage or not as yet adopted at the time the captured statistics were issued by the Japanese. The general use of steam turbine and reciprocating engines instead of Diesel, which were in common use before the war, is another noteworthy feature of the standard types. In all probability this indicates a shortage of facilities tan building the more complicated Diesel engine, and also denotes foresight on the part of the Japanese in that they may in the future be forced to depend on coal rather than oil for fuel. Among the standard types, Diesels are being used only in vessels under 1,000 gross tons (Types E and F).

Individual Types

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The standard types outlined on the following pages include profile drawings and photographs where they can be assigned, notes on distinctive features which will lead to rapid identification, all known statistical information, and, where possible, names of vessels belonging to the class. Some of the types have not, as yet, been identified; it is possible that certain of the classes, such as Type A (Cargo) and TL (Tanker) were never placed in quantity production. Several of the profiles have been drawn from vertical photographs only and should be considered tentative. Note also that ship names listed for standard types include vessels built up to 1 July 1944, and have been selected from known construction on the basis of types, tonnage, and year built. Their assignment, therefore, should not be considered positive. In addition to the statistical data included under each type, all classes above 1,000 gross tons are believed to carry four depth charges. Profile drawings have been graded A, B, C, and D to indicate their evaluated accuracy.

This summary has been prepared by the Division of Naval Intelligence. Extensive use has been made of "Weekly Intelligence" Bulletin No. 12 published by CINCPAC-CINCPOA, and of Shipping Report No. 11 prepared by the Shipping Centre, U. S. Naval Unit, 14th Air Force.

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Large engines-aft cargo vessel with pronounced "economy" hull. Note kingposts against bridge which is located almost amidships, small stack, and heavy stick masts centered in fore and after wells. One observed variation has wide cargo hatches extending three-fourths the beam of the ship. Ships of this class are under construction at Tokyo and have been observed being built near Nagasaki. No prefabrication of hull sections is apparent. Jap Merchant Ship Card No. S 1007.

TYPE A (Modified)

Gross tonnage:	6,670	Speed, normal cr.:	10 kts.
Disp. tonnage loaded:	9,720	Machinery:	Steam turbine
Length, o. a.:	445'	SHP:	2,500 (oil) 17 100 10 100 100
Beam:	64'		2,000 (coal)
Draft, loaded:	25.5'	Cargo booms:	Twelve 5-ton
			One 30-ton



▲ Type A (Modified)

Approximately 24 Type A and A (Modified) had been built by July 1944. The following are believed to belong to one of these classes:

Batopaha Maru	5953	Oigawa Maru	6493
Getsuvo Maru	6440	Taiten Maru	6442
Kovo Maru	6435	Tatebu Maru	6816
Kvokuzan Maru	6300	Tatsunan Maru	6417
Mitsuki Maru	6440	Tatsu-ura Maru	6420
Nichivo Maru	6300	Uvo Maru	6376
Nichizui Maru	6584	Yosan Maru	6487
Nikkyu Maru	6529	Yosho Maru	6300
Nissho Maru	6008	Yowa Maru	6435
Nisshun Maru	6380	Vuzan Maru	6380

TYPE A

Gross tonnage:	6,400	Speed, normal cr.:	12 kts.
Disp. tonnage loaded:	9,300	Machinery:	Reciprocating
Length, o. a.:	445'(?)	IHP:	3,300
Beam:	58'	Cargo booms:	Eight 10-ton
Draft, loaded:	25.5'		Eight 15-ton

Note.-Early reports indicated use of steam turbine and Diesel engines in this class.



4,776

4,739

4,739

4,399

4,408

4,519

4,532

4,440

4,502

Approximately 30 ships of the class are believed to have been built, including the following, some of which are possibly of engines amidship construction.

Anbo Maru
Bichu Maru
Bizen Maru
Chiyo Maru
Fujishima Maru
Kokuyo Maru
Konan Maru #1
Naruo Maru
Sainei Maru

4,523	Sankisan Maru
4,667	Shiranesan Maru
4,667	Shiroganesan Maru
4,700	Shoun Maru
4,930	Shoyu Maru
4,667	Tatebe Maru
4,558	Toyu Maru
4,823	Yamamiya Maru
4,916	Yukigawa Maru

Two new ships, one with a pronounced angular hull shape, fall within the probable length range for this class. No other sightings have been observed.

Gross tonnage:	4,400	Speed, normal cr.:	12 kts.
Disp. tonnage loaded:	7,100	Machinery:	Steam turbine
Length, o. a.:	410' (approx.)	SHP:	2,400
Beam:		Cargo booms:	Six 5-ton
Draft, loaded:	24.3'		Four 10-ton
			One 30-ton





This engines-amidship freighter is closely similar to the AKAGANE MARU and the ANSHU MARU classes shown on pp. 104-5 of ONI 208-J (Revised). Note superstructure slightly aft of amidships, mast centered in fore and after wells, and stack close to bridge. Variations may appear with goal-post masts. Identification of this class has been based on the large number produced before the war, tonnage, length, and the fact that the number of cargo booms correspond with captured statistics. Assignment of this design should not be considered positive.

Gross tonnage:	2,700	Machinery:	Reciprocating
Disp. tonnage loaded:	4,300	Screws: -	1
Length, o. a.:	321'(?)	IHP:	1,800
Beam:	45'	Fuel:	Coal
Draft, loaded:	20.7'	Cargo booms:	Two 2-ton
light:	7'-8'		Four 5-ton
Speed, normal cr.:	11 kts.		Four 10-ton
maximum:	13 kts.		One 20-ton



Approximately 30 are believed to have been built between 1941 and 1 July 1944.

Aiyo Maru		2,746	Nikkoku Maru	2,728
Atsuta Maru	5	2,750	Nittei Maru	2,728
Dai-Akita Maru		2,704	Ryuko Maru	2,764
Daiho Maru		2,720	Shinkoku Maru	2,746
Hagikawa Maru		2,800	Shoei Maru	2,764
Hisajima Maru		2,742	Taishi Maru	2,800
Inari Maru		2,759	Tamon Maru #8	2,750
Kaito Maru		2,745	Tattai Maru	2,800
Masajima Maru		2,742	Unkai Maru #12	2,745
Meiwa Maru		2,721	Wayo Maru	2,726
Mutsuyo Maru		2,726	Yutaka Maru	2,704
Nichinan Maru		2,732	Zuikai Maru	2,700





46-MKMF

TYPE D Sugar Baker Sugar

7



This type is the AMAKASU MARU NO. 1 class, shown on page 270 of ONI 208-J (Revised), some 40 of which were built before the war. The engines-aft design with bridge well forward, masts at forecastle and poop, and kingposts on the bridge, are characteristic features.

Gross tonnage:	1,900	Constructed:	1936 - 1944
Disp. tonnage loaded:	2,850	Machinery:	Reciprocating
Length, o. a.:	295'	Screws:	1
b. p.:	271' - 273'	IHP:	1,100
Beam:	40'-44'	Fuel:	Coal
Draft, loaded:	17.5'	Cargo booms:	Two 3-ton
light:	7'		Four 8-ton
Speed, normal cr.:	10.5 kts.		Two 10-ton
maximum:	13 kts.		One 30-ton

It has been impossible to separate the ships of this type from those in the D (Modified) category; for this reason a combined list of ships in both types is included on the following page.



Slightly longer than the Type D, this ship retains the engines-aft design, but adopts the "economy" hull typical of new Japanese construction. Note the long superstructure with bridge, aft with closely-spaced stack, kingpost at forward edge of bridge, and stick mast far forward in the well but not on forecastle. This type has been observed under construction at Fusan, Korea. Jap Merchant Ship Card No. S 1008.

Gross tonnage:	2,300	Speed, normal cr.:	9 kts.
Disp. tonnage loaded:	3,870	Machinery:	Reciprocating
Length, o. a.:	310'-315'	IHP:	900
Beam:	49'	Cargo booms:	Eight 5-ton
Draft, loaded:	19.2'	0	One 30-ton





Approximately 80 of Types D and D (Modified) have been built since the start of the war.

Akeshima Maru Asavama Maru Bunzan Maru Busan Maru Chinsai Maru Chuvo Maru Daigen Maru #10 Dowa Maru Fuvo Maru Gyokusan Maru Hachijin Maru Hachirogata Maru Heiwa Maru Hinode Maru Hoshi Maru #11 Imaii Maru Kaika Maru Kennichi Maru Kivokawa Maru Kizugawa Maru Kosei Maru Kvowa Maru Matsutan Maru Miyashima Maru Narita Maru

Nissho Maru #18 1.993 1,917 Otori Maru Reian Maru 1.990 Seika Maru 1,990 1,999 Shinwa Maru Shinvo Maru #8 1,900 2,110 Shobu Maru Shojin Maru 1.916 1,900 Shorvu Maru Sugi Maru #5 1.970 1,918 Taichu Maru Tainan Maru 1.999 Tairin Maru 1.958Taisei Maru 1.916 Taisei Maru 1.944 1.986 Tatsuiu Maru 2,087 Tatsutagawa Maru 1.938Temposan Maru 1,990 Tetsuvo Maru 1,915 Toan Maru Toshin Maru 1.920 1,915 Toun Maru 1,999 Tovama Maru Tovo Maru 2,000 Ujina Maru 1,915

1,990

2,105

1,936

2.087

1,915

1,959

2,005

1.942

1,916

1,983

1,906

1,989

1,920

1,948

1,957

1.944

1,923

 $1,970 \\ 2,130$

1.990

1,953

 $1,915 \\ 1,972$

1,916

2,218



TYPE E-1 (Modified)

Gross tonnage:	860
Disp. tonnage loaded:	1,636
Length, o. a.;	210'
Beam:	36'
Draft, loaded:	14.7'
Speed, normal cr.:	7 kts.
Machinery:	Diesel
Screws:	1
SHP:	370-430
Cargo booms:	Four 3 ton
and the second second	

TYPE E

Gross tonnage:	830
Disp. tonnage loaded:	1,270
Length, o. a.:	
Beam:	
Draft, loaded:	14.7'
Speed, normal cr.:	10 kts
Machinery:	Diese
Screws:	1
SHP:	750
Cargo booms:	Three
	Two



Numerous variations appear in this small ore carrier and general cargo ship, which is being mass-produced at Wakamatsu and near Nagasaki. Differences occur in superstructure, bridge, hull shape, and masts and kingposts. The 210' vessel, with small funnel indicating the use of diesel motors and without the centerkingpost, is believed to be the E-1 (Modified) version. It is probable that the basic Type E is not of "economy" design and may be of engine amidship construction. While the range of these ships is believed to be small, large numbers have been observed as far south as Takao and Manila. Approximately 200 ships of the Type E class have been built.

TYPE F

Appearance of this class is closely similar to that of the Type E, but sightings have been so indistinct as to prohibit detailed drawings. Eighteen or 20 are reported to have been built at Hong Kong.

Gross tonnage: 4	95
Disp. tonnage loaded: 7	730
Length, o. a.:	-
Beam:	
Draft, loaded: 1	2.5'
- FTA 1100 (TA) 15	F73

eed, normal cr.:	10 kts.
achinery:	Diesel
HP:	600
argo booms:	Four 5-ton

Stern construction, Type E (Modified)▶

ee 3-ton o 5-ton

TYPE E, E (Modified) Sugar Charlie Sugar



TYPE E-2 (Modified)

Gross tonnage:	880
Disp. tonnage loaded:	1,586
Length, o. a.:	226'
	(approx.)
Beam:	36'
	(approx.)
Draft, loaded:	14.7'
Speed, normal cr.:	7 kts.
Machinery:	Reciprocating
Screws:	1
IHP:	400





Bisp. tonnage5,500Speed, normal er.10.5 kts.Disp. tonnage loaded:7,900Machinery:ReciprocatingLength, o. a.:410'IHP:2,100Beam:59'Cargo booms:Two 2-tonDraft, loaded:24.5'Eight 5-ton

This class, with the medium tanker, Type TM, represents the first standardization for wartime construction. The two classes of vessels are almost identical in length, beam, and hull shape. Distinctive features of the Ore Carrier are its engines-amidship design, with kingposts against the superstructure, and masts against the poop and forecastle. Occasionally ships may appear with a single kingpost instead of mast forward and a topmast on the kingpost against the bridge. Jap Merchant Ship Card Nos. FT 1010 FT 1015, FT 1023 (similar).





Akama Maru	5.600	Kazan Maru 5
Daizen Maru	5,396	Kokko Maru 5
Gyokurei Maru	5,588	Meisan Maru 5
Hakuvo Maru	5,742	Nichirei Maru 5
Heiwa Maru	5,578	Nikkvo Maru 5
Hida Maru	5,320	Seinan Maru5
Hidaka Maru	5,486	Shonan Maru
Higane Maru	5,320	Tainan Maru 5
Hioki Maru	5,320	Takashima Maru
Hiwa Maru	5,320	Tatsubato Maru 5
Honan Maru	5,401	Tennan Maru 5
Horei Maru	5.588	

,333

,486

,480 ,396 ,484 ,401 ,401 ,407 ,633 ,396

.407





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54-MMF

TYPE TL (Modified)

Sugar Able Love

TYPE TL

Design unknown, but probably closely similar to the AKATSUKI MARU, GENYO MARU, KOYOKUTO MARU, and OMUROSAN MARU classes of tankers built from 1937 to 1939.

> Gross tonnage: 10.000 Disp. tonnage loaded: 14,500 Draft, loaded: Length, o. a .: Beam: Speed, normal cr.: Machinery: SHP: Cargo booms: Capacity:

29.7' 16.5 kts. Steam turbine 9,500 One 2-ton Five 3-ton 105,000 bbls.





TYPE TL (Modified)

Characteristics of this tanker are its prominent "economy" hull shape, long, almost pointed stern, and absence of catwalk forward of bridge. Note the location of foremast, which is peculiar to this class alone.

Gross tonnage:	10,000	Speed, normal cr.:	13 kts.
Disp. tonnage loaded:	14,500	Machinery:	Steam turbine
Length, o. a.:	517	SHP:	5,000
Beam:	67'	Cargo booms:	One 2-ton
Draft, loaded:	29.7'	Capacity:	105,000 bbls.

Approximately 12-15 of the Type TL and TL (Modified) had been built by 1 July 1944.

Amatsu Maru	10,56
Kyokuei Maru	10,57
Kyuei Maru	10,17
Mirii Maru	10,56
Nanpo Maru	10,03
Okigawa Maru	10,04

▼ TL (Modified)





Closely similar to the Ore Carrier (Type K) in length and beam, this tanker has been produced in quantity. It will generally appear without catwalk forward of the bridge, but on occasion this has been observed. Variations in superstructure may occur. Jap Merchant Ship Card Nos. S 1005, S 1004 (catwalk forward).

Gross tonnage: Disp. tonnage loaded:	$5,200 \\ 7,000$	Speed, normal cr.: Machinery:	12.5 kts. Steam turbine
Length, o. a.:	410'	SHP:	3,600
Beam:	59'	Cargo booms:	Two 2-ton
Draft, loaded:	24'	Capacity:	54,000 bbls.
		ULUL	HOOL



Approximately 40 had been built by 1 July 1944.

Asashio Maru	5,111	Ryuei Maru	5,144
Bokuei Maru	5,135	Sarawak Maru	5,134
Eiho Maru	5,068	Seishin Maru	5,240
Ichiyo Maru	5,106	Tarakan Maru	5,130
Kokuei Maru	5,154	Yamamizu Maru	5,15
Nichinan Maru	5,175	Yamamizu Maru #2	5,154
Nichirin Maru	5,163	Yamamizu Maru #3	5,244
Ogurasan Maru	5,069	Yuho Maru	5,220
Otorisan Maru	5,280	Zuiho Maru	5 133
Palembang Maru	5,236		



This small tanker is closely similar to Type D (Modified) and, at a distance, distinction between the two classes will be difficult. Characteristic features of the tanker, however, are the trunked deck, short superstructure, stack well aft of bridge, slender foremast almost amidships, and thin mainmast at after edge of bridge. Observers should also keep in mind that the tanker will lack the many heavy booms characteristic of cargo vessels. Distinction between TM (Modified) and the TS types on page 14 will also be difficult, since the few distinguishing features are apparent only on close observation.

TYPE TM (Modified)

Sugar Able Sugar



Gross tonnage:	2,800	Speed, normal cr.:	8 kts.
Disp. tonnage loaded:	4,300	Machinery:	Reciprocating
Length, o. a.:	325'	IHP:	1,100
	(approx.)		
Beam:	50'	Cargo booms:	One 2-ton
	(approx.)		
Draft, loaded:	19.7'	Capacity:	28,000 bbls.

Approximately 12 have been built, four of which are listed below-

Kanetsu Maru	2,867	Toka Maru	2,759
littatsu Maru	2,859	Ukai Maru #5	2,841



Two v observed and in ge coal (not Type, wh However, has been here are figure for designatio

TYPE TS, Sugar Able Sugar



Two versions of small tankers with "economy" hull designs have been observed in quantity, both closely similar to the Type E, Cargo, in dimensions and in general design features. The trunked deck version, since it burns coal (note large stack), more nearly fits the given specifications for the TS Type, while the second design is, in all probability, a later modification. However, in most cases so far identified, use of the "economy" hull design has been indicated by the term "Modified". Moreover, both types shown here are more nearly of 850 than 1000 gross tons, which is the captured figure for the TS vessel. There is a strong possibility, therefore, that the designation TS belongs to a design at present unidentified and of which few were produced, and that both versions illustrated here are later adaptations. Classification for both drawings of Type TS is B.

Gross tonnage:	1,000
Disp. tonnage loaded:	1,250
Length, o. a .:	210 '(?)
Beam:	33.5'(?)
Draft, loaded:	15.5'

Speed, normal cr.:10 kts.Machinery:ReciprocatingIHP:950Cargo booms:One 1-tonCapacity:11,000 bbls.

Approximately 20-25 have been built including the following units-

Koryu Maru		974	Kyoei Maru #6	14	1,178
Koshin Maru		975	Kyoei Maru #7		1,160
Kotai Maru	-	-975	Kyoryoku Maru		1,009
Kyoei Maru #3	En E	1,189	Shonan Maru		1,029
Kyoei Maru #5		_1,186	Takasago Maru	ALL ALL	1,116
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DECLASSIFIED FAR-EASTERN SMALL CRAFT ONI 208-J Supplement No. 2

INTRODUCTION

This manual has been prepared in response to increasing requests from fleet and aerial intelligence echelons for detailed information regarding *all* Far-Eastern small craft.

It was designed in such a way that it would supplement the basic manuals on Japanese merchant ships (ONI 208–J) and the Japanese Navy, thus completing the entire graphic and statistical presentation of all Japanese shipping.

In order that this information can be made available to all personnel concerned, the appearance and general characteristics of small craft is issued in a RESTRICTED booklet. Accompanying this is a CONFIDENTIAL statistical index for the use of intelligence officers. If these two sections are combined, the higher classification is to be maintained.

In studying this manual, these points should be remembered:

-----Small craft are being built and used in ever-increasing numbers for both supply and naval operations.

- -----They are the main carriers for Japan's food staples; rice and fish.
- ------They represent the majority of all inter-island, coastal, and inshore shipping.

Any small craft observed in Japanese waters can be identified as one of the categories or types shown in this book, and many of the larger vessels will be identified individually by photographs, drawings, or statistics.

Detailed reports emphasizing certain phases of this shipping have been issued and will be furnished upon request.

The completeness of this manual was made possible by the skillful aid of the representatives of the Photographic Intelligence Center, who so generously cooperated in its preparation.









This section presents the other side of the small-craft picture; that is, the naval vessels engaged in duties also performed by commercial types.

In general, this includes all naval combatant vessels under 400 tons (standard), which are grouped in this section as follows:

Submarine chasers—Large (PC) and small (SCS).

Motor-torpedo boats-Torpedo Boats (PT) and Anti-PT Boats (Hayabusa).

River gunboats-Captured Allied and Japanese types (PR).

Landing ships-Tank landing ships (LST)

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Landing craft-All types of personnel and vehicle landing craft.

In addition, a revised grouping of all minor combatant types is included. This supersedes the design list published in the Statistical Summary of the Japanese Navy.

A typical small-craft interpretation problem is found in this recco photo of OKINAWA (in the Ryukyus), taken during October 1944. This maze of small craft includes a large PC, landing craft types "A," "Super-A," "D," and "H," type "X" fuel barge, seagoing tug, sea-trucks, luggers, small fishing vessels, motor launches, a floating crane, and miscellaneous harbor scows and lighters.



PC-SUBMARINE CHASERS PC 1 CLASS (PC 1-12)

This is the oldest type still in operation. Hull is a combination of steel and wood construction.

Completed—1933-34. Displacement—300 tons (standard). Dimensions—213' (o. a.) x 19' x 5' (max.). Speed—24 knots (des.). DRIVE — Diesel; 3,400 hp. COMPLEMENT—45 officers and men.

Armament on this type varies; main battery may be 3'' or less; an undisclosed number of automatic machine guns, mines, and depth charges may be carried.











PC-SUBMARINE CHASERS

PC 4 (variation in the PC 1 Class)

Completed—1937-39. Displacement—270 tons (standard). Dimensions—178' (o. a.) x 18'2'' x 6'6'' (max.).

Speed—20 knots (des.). Drive—Diesel; 2,600 hp.



PC 13 CLASS (PC 13-63; 67; 109; 116)

The standard wartime design; may still be building. This class includes "screening subchasers" formerly listed as the PC 50 Class.

Completed-1941-

 $\begin{array}{l} {\rm Displacement}{\rm --300\,tons\,(standard)\,.}\\ {\rm Dimensions}{\rm --200'\,(o.\,a.)\,x\,\,24'\,x\,?.}\\ {\rm Speed}{\rm --20\,knots\,(max.)\,.} \end{array}$





SCS-SUBMARINE CHASERS (SMALL)

SCS 1 CLASS (SCS 1-100, 151-177)

Called "Special Duty Subchasers" by the Japanese, these wooden craft have been mass-produced (3 months per unit) to serve as standard coastal antisubmarine escorts.

COMPLETED—1941- DISPLACEMENT—100 tons (stand- ard). DIMENSIONS—97' (o. a.) x 19' x 6'6''. ARMAMENT—One or two 25-mm., 13- mm., or 7.7-mm. AAMG; 18 depth charges, 8 D. C. releases.	EQUIPMENT—"KE" type hydro- phone; two-way radio. SFEED—10 knots (max.). ENDURANCE—1,500 miles at econ. speed. DRIVE—Single 6-cylinder Diesel; 400 hp., 500 r. p. m. COMPLEMENT—3 officers, 23 men.
Len Blook	

SCS 101 CLASS (SCS 101-117)

Eighteen Netherlands Navy patrol craft were reported captured at Soerabaja and assigned SCS 101–117 numbers by the Japanese.

Six of these units (ex AROE, BANTAM (now SCS 117), BOEROE BOGOR, CERAM, CHERIBON, and DIGOEL) were built in 1937 to the following specifications:

DISPLACEMENT-200 tons. DIMENSIONS-104' x 18' x 8' 6". SPEED-12 knots (des.). DRTYE-Diesel; 350 b. hp. COMPLEMENT-12 to 15,

Present armament is unknown, but one unit of the class is believed fitted with two 13-mm. machine guns, mines, and hydrophone.







SCS—SUBMARINE CHASERS (SMALL)

SCS 101 CLASS (SCS 101-117)

Also included in this class are 12 Netherlands Navy patrol vessels which were under construction at Soerabaja when the port fell. Specifications below are for the original design.

DISPLACEMENT-140 tons (stand- ARMAMENT (reported)-One autoard).

Dimensions—150' (o. a.) x 18–20' x 4-5'.

SPEED-18 knots (des.).

DRIVE-Four Kermuth gas engines; 1,800 hp.; twin screws. These engines may have been replaced by the Japanese.

matic weapon of undetermined caliber forward. Two machine guns. Type KE hydrophone.

SCS 251 CLASS (SCS 251-253)

These small submarine chasers were formerly designated as the SCS 51 Class.

Completed-1937-44.

DISPLACEMENT-170 tons (standard).

DIMENSIONS-146' (o. a.) x 15'3" x 5'6'' (max.).

Speed—20 knots (max., est.).

DRIVE-Diesel.

Present armament is undetermined.



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MOTOR TORPEDO BOATS

MOTOR TORPEDO AND HAYABUSA BOATS (PT, PGM)

It is estimated that the Japanese have in operation over 300 motor torpedo boats comprising some fifteen classes. Although information is available for only four of these, it is probable that the unidentified classes are very similar to each other and that numbered designations do not actually indicate distinct differences. In general, Japanese PT's are considered inferior to United States motor torpedo boats in speed, firepower, and performance.

Japanese respect for our PT's is revealed in their program for the construction of Hayabusa Boats, high-speed patrol craft whose primary function is reported as "anti-torpedo-boat warfare." Approximately 90 are now believed to be in operation. The Hayabusa is well equipped with heavy automatic machine guns and can carry mines and depth charges, but is not equipped for torpedoes.



PT 1 CLASS (PT 1-9)





All units were adapted from an Italian MAS design.

DISPLACEMENT—20 tons (standard). AR DIMENSIONS—61' (o. a.) x 14' x 2'2'' (max.). SPEED—38 knots (max.); 30 knots (cruising). ENDURANCE—210 miles at 30 knots. DRIVE—Two HIRO gas engines; 1,800 hp. Co

ARMAMENT-Two 18" torpedoes. Two 7.7-mm. machine guns. Two to six depth charges carried. Hydrophone gear carried.

Complement-7.

Division of Naval Intelligence PT 10 CLASS (PT 10-16)

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Seven of these steel-hulled units are believed to be operating.

- BURG (CHUND)

DISPLACEMENT-80 tons (standard). ARMAMENT-Four 18" torpedoes.

DIMENSIONS-107' (o. a.) x 16'6'' x 2'6" (max.).

Speed-29 knots (max.); 16 knots (cruising).

ENDURANCE-340 miles at 28 knots: 1,000 miles at 16 knots.

DRIVE-Four gas engines; 3,800 hp.; 4 screws.

COMPLEMENT-18.

Three 13-mm. single

Eight to twelve depth

Smoke apparatus and

hydrophone carried.

AAMG.

charges.

PT 101 CLASS (PT 101, 109-118)-Captured Units.





This group includes 10 Dutch PT's seized by the Japanese. All are steelhulled.

DISPLACEMENT-20 tons (standard). ARMAMENT-Two 18" torpedoes. DIMENSIONS-61' (o. a.) x 12'9" x 4'. Speed-38 knots (max.); 30 knots (cruising).

ENDURANCE-310 miles at 30 knots. DRIVE-Threegasengines and screws;

.350 hp. (des

MOTOR TORPEDO BOATS

Two 13-mm. twins, one 7.7-mm, AAMG,

Two to twelve depth charges.

MOTOR TORPEDO BOATS





The other classes, with their operational units, are officially listed as follows:

PT 151 Class—PT 151–156; PT 206 Class—PT 206–212, 219, 230–234; PT 220 Class—PT 220–229, 316– 326, 349–354, 421–425, 455, 456, 501–505; PT 235 Class—PT 235– 240; PT 241 Class—PT 241–249,

250-286, 457-467, 506-528; PT 301 Class—PT 301-315; PT 327 Class—PT 327-348, 355-357; PT 411 Class—PT 411-420, 426-450, 470-473; PT 468 Class—PT 468, 482-490; PT 469 Class—PT 469; PT 474 Class—PT 474-481. In addition, there are 38 units massigned to any of these classes.

PT 201 CLASS (PT 201-205, 213-218, 401-410, 451-454)

Twenty-five units are believed to be in commission. Characteristics indicate a multipurpose design for patrol, liaison, mine laying, and mine sweeping duties as well as defensive torpedoing.

DISPLACEMENT-20 tons (standard).

Dimensions—59' (o. a.) x 14' x 2'2'' (max.).

Speed—14 knots.

ENDURANCE—310 miles at 14 knots. DRIVE—One type 91 gas engine; 900 hp.

ARMAMENT—Two 18" torpedo tubes. One 13-mm. AAMG. Mines and depth charges can be carried.

HAYABUSA BOATS (PGM)

Eighty-six more units, comprising three classes, are mentioned for this type of anti-submarine, anti-PT "high-speed boat," without any specific breakdown as to characteristics. Classes are:

No. 1 Class-1-9.

No. 10 Class—10–26, 52–73, 204–211 (48 units).

No. 74 Class-74-100, 201-203.

DISPLACEMENT-20 tons.

Dimensions-59' (o. a.) x 14' x 7'6'' (max.).

Speed—37 knots (max.); 30 knots (cruising).

ENDURANCE-180 miles.

DRIVE-Two 800 hp. aircraft engines.

Armament varies considerably in these craft. One 40-mm. and one or two machine guns have been reported in armored turrets. Depth charges may also be carried.



RIVER GUNBOATS (PR)

Fifteen river gunboats including six seizures are listed by the Japanese. These vessels are primarily designed for river and harbor protection in China, but are also suitable to inland sea and coastal patrol.

Their appearance is usually marked by two tall stacks stepped on a high, multi-tiered deckhouse, a combination which should make them distinctive from other river passenger types. Most of these vessels are armed with 3'' gun mounts fore and aft, with additional automatic AAMG, although PR 12 (the ex MOTH) mounted two 6'' guns at the time of its capture.

Supplementing the designated river gunboats are approximately 15 Chinese Customs Patrol ships and 13 Manchukuan river gunboats whose general appearance and function warrant their classification in the river gunboat group.





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PR 8-9 SUMIDA CLASS-SUMIDA, FUSHIMA

Completed-1937-43. DISPLACEMENT-320 tons (standard). DIMENSIONS-164' (o. a.) x 32' x 3'6'' (mean).

(des.). ARMAMENT-One 3"/40 cal. ? automatic AAMG.

DRIVE-Reciprocating; 2,200 hp.

SPEED-16 knots (des.).

PR 10 MAIKO

Built in England in 1909. Formerly ex Portuguese MACAU; may have been rearmed with Japanese weapons.

DISPLACEMENT-95 tons (standard). Dimensions—119'8'' (pp) x 19'9'' x 2'. SPEED-12 knots (des.). ENDURANCE-300 miles at econ. speed. DRIVE-Reciprocating: 250 hp. (des.).

ARMAMENT (original)-Two British 6 pounders. Three machine guns.

Formerly the U.S.S. WAKE (ex GUAM) captured by the Japanese at Shanghai, December 1941. Completed-1926-27. DISPLACEMENT-370 tons (standard). Dimensions-159'5" (o. a.) x 27'1" x 5'1" (mean). SPEED-14.5 knots (des.).

DRIVE-Reciprocating; 1,950 hp. (des.). FUEL-Oil. ARMAMENT-Two 3''/23 cal. (at time of Ship may have been recapture) fitted with Japanese weapons.

RIVER GUNBOATS (PR)

Complement-58.





All specifications are pre-war and these vessels may have been refitted or altered since seizure.

PR 13 SUMA

PR 12 KARATSU

RIVER GUNBOATS (PR)

Formerly the U.S.S. LUZON captured by the Japanese.

DRIVE-Reciprocating; 3,150 hp. Completed-1926-28. (des.). DISPLACEMENT-560 tons (standard) ARMAMENT Dimensions-210'9" (o. a.) x 31'1" x 5'7" (mean).

Speed—16 knots (des.).

(at time of capture)-Two 3''/50 cal. Ten .30 cal.

AAMG.





Formerly H. M. S. MOTH captured by the Japanese in December 1941.

Completed-1915-16. DISPLACEMENT-625 tons (standard) DIMENSIONS-237'6" (o. a.) x 36' x 4'6'' (mean).

DRIVE-Reciprocating: 2,000 hp. (des.).

Armament (at time of capture)-Two 6"/50 cal. One 2-pounder pompom.







PR 14 NARUMI-Ex Italian Gunboat, ERMANNO CARLOTTO

Completed-1918.	DRIVE-Reciprocating;	1,100	hp
DISPLACEMENT-180 tons.	(des.).		
Dimensions—160' x 24'6'' x 2'7''.	ARMAMENT (original)—Two 3" AA. Six machine		
SPEED—14 knots (des.).	Complement-156.	guns.	

KOSEI, KOHEI

PR—KOSEI is ex CHIANG CHING, KOHEI is ex CHIANG PIEN.
COMPLETED—1897-1900 for Russia.
DISPLACEMENT—360 tons.
DIMENSIONS—164' x 31'6'' x 3'3''.
SPEED—7-7.5 knots.
DRIVE—Reciprocating.
ARMAMENT—One 3''.
Four machine guns.



RIVER GUNBOATS (PR)



PR 15 OKITSU-Ex Italian Minelayer, LEPANTO

Completed—1927.	ENDURANCE-3,500 miles.
DISPLACEMENT-615 tons (standard)	ARMAMENT (original)—Two 4''/35 cal. One 3'' AA.
$\begin{array}{c} \text{DIMENSIONS} \\ \text{(mean).} \end{array}$	Two machine
SPEED—15 knots (des.).	Eighty mines.
DRIVE—Reciprocating; 1,500 hp. (des.)	COMPLEMENT-100.

MANCHUKUAN RIVER GUNBOATS (PR)

RISEI

PR—RISEI is ex LICHI. Built in 1895 for Russia.

DISPLACEMENT-362 tons.

DIMENSIONS-158' x 42'9" x 3'6".

Speed-7.5 knots.

ARMAMENT-One 3".

Four machine guns.

MANCHUKUAN RIVER GUNBOATS (PR)



COMPLETED-1903 as the German gunboat, VATER-LAND. DISPLACEMENT-350 tons (max.). DIMENSIONS-164' x 26'3" x 2'7".

Speed-7 knots or less. DRIVE—Triple expansion; 1,380 i. h. p. ARMAMENT—Two 57 mm. Two machine guns. Complement-100.

TEIKEN, SHINJIN



PR-TEIKEN is ex TING PIEN; SHINJIN the ex CHIN JEN. Completed-1935. DISPLACEMENT-290 tons (standard) DIMENSIONS-195' x 29' x 3'. SPEED-13 knots.

DRIVE-Diesel; 680 b.h.p. ARMAMENT-Two 4.7". Three machine guns, Complement-70.

JUNTEN, YOMIN

PR—JUNTEN is ex SHUN TIEN; YOMIN the ex YANG MIN. Completed-1934. DISPLACEMENT-270 tons (standard)

DIMENSIONS-183' x 29' x 3'. Speed-12.5 knots. DRIVE-Diesel; 680 b. hp.

ARMAMENT-Two 4.7". Three machine guns. Complement-70.





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KOTSU

PR-KOTSU is ex CHIANG TUNG; also may be ex MONGOL. Built in 1903 for Russia.

DISPLACEMENT-250 tons (standard) DIMENSIONS-150' x 18'3" x 3'. SPEED-4.5 knots.

DRIVE-Steam. Armament-One 3". Four machine guns.



Police Patrol Vessels-KAIHO, KOIRYIN

KAIHO is ex HAIFENG; KOIRYIN the ex HAILUNG. Completed-1933. DISPLACEMENT-184 tons. DIMENSIONS-143' x 20' x 5'. Speed—14 knots. DRIVE—Diesel (2 sets).

ARMAMENT-Two 3". Two machine guns.

Both vessels reported strengthened for ice navigation.



MANCHUKUAN RIVER GUNBOATS (PR)

DAIDO, RIMIN

PR-DAIDO is ex TATUNG: RIMIN the ex LIMIN.

Completed-1933. DISPLACEMENT-65 tons (standard). DIMENSIONS-100' x 16' x 2.5'. Speed-10.5 knots.

DRIVE-Diesel: 240 b.h.p. ARMAMENT-One 57-mm. howitzer. Three machine guns. Complement-20.





EX CHINESE CUSTOMS PATROL CRUISERS

"HO" CLASS

 Three ships, the HOHSING, TEH HSING, and LIENHSING, are known to have been captured in good condition.

 COMPLETED—1934.
 DREVE—Triple expansion; 2,000 hp.

 DISPLACEMENT—900 tons (standard)
 ARMAMENT—Two British 3 pounders Six .30 cal., two .50 cal. MG.

 SPEED—13 knots (des.).
 MG.

"HUA" CLASS

Two units, the HUAHSING and FEIHSING, were built to this design in 1932.

DISPLACEMENT-800 tons.

SPEED—13 knots (cruising).

LENGTH-147' (o. a.) x 10' (draft).

DRIVE—Triple expansion. ARMAMENT—Two British 3 pounders Two .50 cal., four .30 cal. MG.

"HAI" CLASS

Four units of class believed to be under Japanese control are HAITSING, HAIAN, HAIYEN, HAICHENG.

Completed-1934.

SPEED-13 knots (des.).

DRIVE—Triple expansion.

DISPLACEMENT-600 tons. DIMENSIONS-140' (o. a.) x 9' draft. ARMAMENT—One British 3 pounder. Four .30 cal. MG.




EX CHINESE CUSTOMS PATROL CRUISERS

HAIHUI CLASS

Class consists of HAIHUI and HAIPING; both built in 1934 at Shanghai.

DISPLACEMENT—600 tons (standard) DIMENSIONS—140' (o. a.) x 8' draft. Speed—12 knots. DRIVE—Twin Diesel.

ARMAMENT—One British 3 pounder. Four .30 cal. MG.

"SOO" CLASS

The SOOHSING, WEN HSING, and YUN HSING were built in 1934 at Shanghai.

DISPLACEMENT—400 tons (standard) DRIVE—Twin Diesel. DIMENSIONS—140' (o. a.) x 6' draft. ARMAMENT—One British 3 pounder, SPEED—15 knots. several MG's.

CHUENTIAO CLASS

CHUENTIAO and LIKIN were operating as "Revenue Cruisers" before capture in 1941; LIKIN may have been refitted since.

Completed—1888. Displacement—600 tons (approx., standard). Dimensions—160' (o. a.) (CHUEN-TIAO) 150' (o. a.) (LIKIN) x 10' riraft. Speed—12 knots.

DRIVE—Triple expansion.

ARMAMENT—One British 3 pounder. Four .30 cal. MG.

LANDING SHIPS, MILITARY LANDING CRAFT, AND BARGES

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The current Philippine campaign again emphasizes the importance of military landing craft in the Japanese Navy, and as future, Allied operations shorten Japanese lines of communications, landing craft will assume an even more significant role. The enemy will probably rely on amphibious tactics similar to those observed in New Guinea during the past several months making short inter-island and coastal runs, hiding by day, landing at night, and using land-based air cover whenever possible.

Any type of surface ship is capable of carrying MLC, proportionate in number to the sizes of both the ship and the MLC carried. Specially designated tenders carry large numbers of barges below decks, launching them through stern and side ports constructed for the purpose. Barges are also transported as deck cargo aboard warships or merchant vessels, and are hoisted overside by means of derricks, sometimes with the aid of rollers. Reconnaissance submarines may also carry one or two MLC's bolted to the after deck.

LANDING SHIPS (LST)

Reconnaissance photographs in the past several months have revealed the existence of a smaller and newer type of amphibious ship which seems a hybrid of the United States LST and LSM. Because of a closer similarity to the LST, it was presented first by that designation; also called "Japanese Auxiliary Transport." There are now believed to be three classes of this type, identified by the Japanese as "HA," "NI," and "I" Classes. These ships, capable of carrying tanks, ammunition, and personnel, are being built in large numbers.

MILITARY LANDING CRAFT AND SUPPLY BARGES (MLC)

Previous ONI studies classified Japanese landing craft according to alphabetical designations, basing these on early reconnaissance photographs and intelligence data from the field. This system is followed in the manual, although it does not present a functional breakdown of landing craft. Generally, Japanese barges can be divided into these three categories:

1. Landing craft—Used primarily for quick debarkation of personnel and supplies; includes Types "Super-A," "A," "B," "E," "F," "G," and "H." "Super-A" or Toku Daihatsu is an overgrown version of Type "A" (Army), the standard barge used by the Japanese in every theater. There are other large barges in use, but the Toku Daihatsu is the only standard model so named by the Japanese. It is reported that 50% of all military landing craft in use are the Daihatsu or Type "A," but recent reconnaissance photographs indicate an increase in the number of Type "H," a 52-foot plywood barge evolved from the "A," but which is easier to build than its predecessor.

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- 2. Armored boats and high-speed boats—Used for barge escort, liaison, reconnaissance, smoke-screening, and patrol; this includes Types "C" and "K." The Type "C" or its variation is likely to be encountered in increasing numbers, since it can be used for barge escort and as a substitute for the more expensive PT boats. Specifications are also listed for a new Type "K" which the Japanese identify as KOSO-KOKO or "high-speed boat." This craft is said to resemble a launch and has been used throughout the war for liaison and reconnaissance. As yet there are no clearly identified photographs of this type. New information on their "Suicide craft" is also included.
- 3. Cargo barges, flats, and wooden lighters (dumb or self-propelled) include Types "D," "I," and "J," presented even though odd native lighters perform similar functions. These lighters would be more aptly placed in the "Cargo Barge-Lighter Section" but are included here because of the previous classification adopted

Recent photos of Japan proper reveal the presence of the double-ender "I" used extensively in home harbors, and this type is likely to be observed more frequently. Variations of Type "D" are also presented but should not be taken as standard. The ease of building this type and similar lighters is borne out by the preponderance of these craft seen in reconnaissance 20 photographs of Japanese harbors.

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"HA" CLASS



This class is referred to by the Japanese as Auxiliary Transport or SS Boat. It is designed for beach landings.

DISPLACEMENT-1,000 tons.

DIMENSIONS-264' (o. a.) x 31'.

DRAFT-10'2" (max.). SPEED-20 knots (max.); 18 knots (cruising).

LST-TANK LANDING SHIPS

HADCHANCE 1,000 miles at 18 CAPACITY-150 men, 4 tanks, and knots. DRIVE-2 Diesels; 5,000 hp. ARMAMENT One or two 3"/40. Four heavy AAMG, several light.

'I'' CLASS

DISPLACEMENT-800 tons. DIMENSIONS-193'6" x 31'5" x 15' (depth). DRAFT-13'2'' (max.). SPEED-14 knots (max.); 13 knots (cruising).

"NI" CLASS

DISPLACEMENT-1,100 tons (reported). Speed-25 knots (approx.).

munitions, or 3,000 cubic meters of munitions.

ENDURANCE-1,000 miles. DRIVE-2 Diesels; 1,110 hp. CAPACITY AND ARMAMENT-Same as for "HA" Class.

RANGE-1,000 miles. DRIVE-Steam turbine; 10,000 (?) hp.





This enlarged Type "A" has been used for debarkation of tanks, heavy matériel, or personnel throughout the Pacific area. Japanese designation is TOKU DAIHATSU.

Displacement—15 tons. Dimensions—65' (may vary) x 14'8'' x 4' (max.). Speed—9 knots (loaded); 10.5 knots (light). ENDURANCE-13 hours.

 $\begin{array}{c} {\rm Drive}{\rm -Two \ 6-cylinder \ Diesels; \ 120} \\ {\rm hp.} \end{array}$

CAPACITY-170 to 190 fully equipped troops, or 20 horses, or 25 tons supply, or 2 trucks, or 2 Type 89 or 1 Type 97 tanks.

Crew-8 to 10.



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This is the most common type observed for the debarkation of personnel, horses, or medium tanks. Japanese designation is DAIHAT-SU.

DIMENSIONS-49'4" (o. a.) x 11'5" x

SPEED-7.5 knots (loaded); 8.7 knots

(light).

3'-4' (loaded).

DISPLACEMENT-8 tons.

TYPE "A" ARMY

ENDURANCE-9.5 hours. DRIVE-One 6-cylinder Diesel; 60-80 hp. CAPACITY-70 to 90 fully equipped troops, or 10 horses, or

11 tons supply, or 1 truck, or 1 Type 89 tank, or 3 tons munitions.

CREW-4 to 6.







DISPLACEMENT-8 to 10 tons.

(water line) x 11'5' x 3'-4' (loaded). Other specifications as in Type "A" Army.





A pre-war design used to land personnel, which has been observed in all theaters. Japanese designation is SHOHATSU. DISPLACEMENT—3.3 tons.

DISPLACEMENT—5.5 tons. DIMENSIONS—33' (o. a.) x 8'2'' x 2'4''-2'8'' (loaded), 1'4'' (light). SPEED-8.2 knots (loaded); 9.8 knots (light). ENDURANCE-4.5 hours. DRIVE-One 60-hp. Diesel. CAPACITY-30 fully equipped troops or 3 tons supply. CREW-4 to 6.



ARMORED MOTORBOATS

TYPE "C" LANDING CRAFT





STANDARD TYPE DISPLACEMENT—18 tons. DIMENSIONS—49' (o. a.) x 11'6'' x 4' (max.). Speed—12 to 14 knots.

ENDURANCE-10 hours.

ARMAMENT-3 automatic weapons in enclosed gun houses, reported up to 57 mm. DRIVE-One 350 hp. Diesel.

CREW—13 to 15 troops.

TYPE "C" VARIATION



All specifications are as in Type "C" except armament, reported as follows:

Two 57-mm, tank guns in armored shields. Two 13-mm, twins in armored bridge positions,

This steel motorboat was designed for coastal anti-PT patrol, to neutralize shore-based gun and observation posts, and to serve as barge escorts and general liaison vessels.





Type "C" variation photographed off Cape Gloucester with three 13-mm. shielded machine guns as total armament. Other specifications as in standard model "C".





Photo above shows another "C" type variation used in the China campaign. Although the "C" has been officially designated as SOKOTEI, there is a possibility that this type, or a variation of it, is also the "Hayabusa Boat" mentioned on preceding pages.



ARMORED MOTORBOATS

MILITARY LANDING CRAFT AND BARGES



This craft, designated as a "float" or "tiller-type barge," is primarily used as a harbor lighter. Numerous variations of this type have been observed, including some up to 70′ long and powered; others lashed together as a double or pontoon barge. Lack of armament and armor make this type extremely vulnerable. DISPLACEMENT—4 tons (approx.) DIMENSIONS—38'5'' x 11'. SPEED—9 knots (max.) for powered types. DRIVE—Gas motor for powered

types. CAPACITY-50 fully equipped troops or 8 to 10 tons cargo.





Used exclusively as a troop transport for operations in river, estuary, or swampy areas where light draft is necessary.

DISPLACEMENT-

Dimensions-63'2" (o. a.) x 8'9" x 1'6" (max.). SPEED-10 knots (light).

DRIVE—Airscrew propeller; gas engine.

CAPACITY-60 fully equipped troops or 40 troops and 6 horses.









A steel-hulled type used for landing small units of personnel. These have also been called "Special Small Barges." DIMENSIONS—21' (o. a.) x 7' beam. SPEED—8 to 10 knots (loaded). ENDURANCE—7 to 8 hours. DRIVE—Gas engine. CAPACITY—20 fully equipped troops.

A standard "Sampan Type Barge," derived from the native fishing type. DIMENSIONS—52'1'' (o. a.) x 13' beam.

Speed—7 to 8 knots (light). DRIVE—Gas engine. CAPACITY—50 fully equipped troops.



MILITARY LANDING CRAFT AND BARGES

TYPE ''H"

A large plywood barge evolved from Type "A;" used for debarkation of troops and equipment.



DISPLACEMENT—5 tons. DIMENSIONS—51' (o. a.) x 13' x 3' (loaded). Speed—6 to 8 knots (light). DRIVE—Two 40-hp. auto engines. CAPACITY—90 fully equipped troops or 1 Type 89 tank.

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A "dumb," double-ended barge often seen towed in column by powered landing craft. None of these has been armed.

DIMENSIONS-47' (o. a.) x 16'6".







TYPE 'J"

MILITARY LANDING CRAFT AND BARGES

TYPE 'K"

A wooden "high-speed boat" used for liaison and patrol. Japanese designation is KOSOKOKO.

DISPLACEMENT-5 to 7 tons.

Dimensions-47' (o. a.) x 9'6'' x 3'3'' (draft).

Speed-38 knots (max.).

ENDURANCE-6 hours.

DRIVE—One 400-hp. gas engine.

EQUIPMENT-Radio and smoke equipment.

CREW-4 to 5.



A nonpowered wooden type. No armament has been reported carried. DIMENSIONS-54' (o. a.) x 15'.







A standard square-stern pontoon built of wood ribbing with canvas covering. Joints are bolted to allow sides to fold inwards. Two of these units can be joined end to end, or fitted with a double-ended "spacer" unit, as shown in the drawings.

Single Unit— DIMENSIONS—13'7'' (o. a.) x 5'0''.

CAPACITY—20 men. WEIGHT—400 pounds.







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Standard Japanese Army Engineers type used as pontoon. DIMENSIONS—24'6'' (o. a.) x 5'0''.



JAPANESE SUICIDE BOATS

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A new type of suicide "depth-charge motorboat" has been recovered and examined with the following characteristics: The craft is a standard, massproduced design built out of plywood and powered by a single 85-hp. automobile engine. A single screw is connected by direct driving gear, but no provision is made for reverse speeds. The maximum forward speed is estimated at 35 knots, and is used for full-power approaches and get-aways. Most of these craft have been seen to slow down considerably to lay their charges.

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Each craft carries two 120-kg. depth charges on their gunwales or stern, both of which can be dropped close aboard their targets or released automatically if the attacking boats choose to ram. This releasing device is shown in the sketch.

A number of other suicide craft have also been reported, ranging from a three-man midget PT and an "Italian type" explosive motorboat down to local native boats fitted with outboard motors and demolition charges.





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Division of Naval Intelligence On the rivers and on the entatient sea and inclusive attends that East, vessels designed to handle a large passenteen track appear an utimoduce. These ships vary in size, appearance, and characteristics, from the smallest launch to large coastal passenger ships. However, for the purposes of this publication, only those vessels under 1,000 gross tons (200 feet or less over-all length) are included.

SMALL PASSENGER STEAMERS

This category, including those vessels designed primarily to serve the passenger trade in coastal waters and over small open-water areas, consists of ships similar in many respects to English "Cross Channel" steamers or to American sound boats. They can often accommodate as many as five or six hundred first-class passengers, as well as a considerable amount of cargo. At the start of the war, the Japanese registry listed approximately 250 vessels in this category, most of which were "cargo passenger" types.

Wartime requisitioning of many of these ships has resulted in their use as hospital ships, troop transports, or supply vessels, as well as for various duties purely naval in character. Eight are known to operate as XAM's and eleven others as XYN's. In serving these military functions armament has been considered unimportant; most vessels, if armed at all, will be fitted with light machine guns and depth charges. However, 3''/40 guns are known to have been mounted.

The 668-ton ONDO MARU is typical of this category. Designed to accommodate over 400 first-class passengers and to carry a moderate cargo tonnage, the vessel is relatively fast (15 knots maximum) and is powered by Diesel engines; construction is steel. The AOI MARU, illustrated on page 35, is a larger type, accommodating 650 passengers, but with the blunt lines typical of small passenger vessels.

INSHORE PASSENGER TYPES

Since the inland waterways of the Orient serve as the main highways for 33 both military and commercial traffic, water shipping is of major importance. The passenger vessels which ply these rivers, lakes, and inland seas vary enormously in appearance and in the functions which they serve. In general, however, they may be classed in four large categories: River Steamers, Creek Steamers, Passenger Launches, and Dumb Flats.

During wartime, duties of these vessels, as in the larger coastal or seagoing types, has involved the ferrying of troops and use as hospital carriers. As hospital ships, they may be fitted to give full care to 50 or 100 wounded. In addition, a great many are known to have been assigned to the transport of supplies. Generally unarmed, these ships rely on camouflage for protection, since their shallow draft allows them to lurk close to shore covered with natural foliage and hiding in small coves.

RIVER STEAMERS include vessels of all sizes, often as large as several thousand tons, but all retain the characteristic low freeboard, shallow draft, and block-like superstructure formed by numerous decks. Except for a few modern Diesel types, river steamers burn coal or wood and use either underwater propellers or paddle wheels for propulsion. Speeds often range as high as 15 knots on the larger types. While the top deck is usually given over to passenger use, and is invariably canvas covered, the lower decks may be used for cargo.

CREEK STEAMERS are essentially river steamers on a smaller scale, designed to navigate the narrow, twisting, and shallow waters of the smaller rivers. They have been observed in abundance in the Burma area. All are double-decked, 80 to 135 feet in length, and may carry 200 to 350 passengers. Speeds reach 9 knots. These vessels, burning coal, may travel for 4 days without refueling, or an unlimited time if the fuel is wood.

PASSENGER LAUNCHES have been classified on the basis of a single deck, as opposed to the double decks typical of creek steamers. Most are 100 feet or less in length, burn coal or wood, cruise at 6 to 8 knots, and have an endurance of 2 to 3 days if coal is used. A maximum of 150 persons may be accommodated.

DUMB FLATS (flats without self-propulsion), resemble common barges, although larger in size, and perform many of the same functions. They are built in several standard sizes with 250 feet over-all as a maximum. Generally flats are designated "oil," "railway," or "cargo," depending on their function.















AREA—Thailand. YEAR BUILT—1927. FLAG—Siamese. TONNAGE—686 (gross). LENGTH—200' (water line). BEAM—33'. SPEED—13 knots (cruising). MACHINERY—Diesel. FUEL—Oil. SCREWS—2. NHP—196.



AREA-Japan; built to serve Tokyo, Oshima Island, and Izu Peninsula.

YEAR BUILT-1933.

FLAG-Japanese.

PASSENGERS-650 accommodated. Tonnage-938 (gross). Length-193' (water line). Beam-32'.

DRAFT-9.5' (loaded).

Speed—15 knots (max.). Machinery—Diesel.

FUEL-Oil.





SANSUI MARU

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NAVAL STATUS-XAN; Indicator Net T en der; G overnment reqisitioned.

аныл-заран.

YEAR BUILT-1934.

FLAG-Japanese.

TONNAGE-812 (gross).

LENGTH-190' (water line).

Велм-31'.

SPEED-12 knots (max.).

MACHINERY-Diesel.

FUEL—Oil. NHP—164.





KIKU MARU

NAVAL STATUS-XAN: Government ВЕАМ-30'. requisitioned. AREA-Japan. YEAR BUILT-1929. FUEL-Oil. FLAG-Japanese. NHP-163. TONNAGE-760 (gross).

LENGTH-180' (water line). SPEED—11 knots (cruising). MACHINERY-Diesel.





MUTSU MARU



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NAVAL STATUS—AP-AK. AREA—Japan. YEAR BUILT—1923. FLAG—Japanese. TONNAGE—520 (gross). LENGTH—160' (water line). BEAM—27'. SPEED—12 knots (eruising).











OKESA MARU





- NAVAL STATUS-Government requisitioned.
- AREA-Japan.

FUEL-Oil.

- YEAR BUILT-1932.
- FLAG-Japanese.
- TONNAGE-488 (gross).
- LENGTH-160' (water line).
- Speed—14.4 knots (max.).
- MACHINERY-Diesel.
- R. P. M.-253.5.
- FUEL-Oil.





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NAVAL STATUS—AP. AREA—Japan. YEAR BUILT—1923. FLAG—Japanese. TONNAGE—545 (gross). LENGTH—140' (water line). BEAM—30'. SPEED—11 knots (cruising). MACHINERY—Steam turbines. FUEL—Coal. SCREWS—2.

COASTAL PASSENGER STEAMERS

INCLASSIFIED

SANYO MARU













Except for those individual vessels shown on the preceding pages, the vast majority of coastal passenger vessels remain unidentified as to specific appearance.

Most of these, however, are typified by the photos shown on this spread. Notice that the shade of difference is very slight between the coastal types shown on this page and the river steamers on the facing page.

For a detailed view of the vessels not illustrated, a comprehensive descriptive list is included in another section of this manual.



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River passenger vessels range in size up to several thousand tons; in length over 300'. In this manual, they have been divided into three large categories for ease in recognition: River steamers, creek steamers, and passenger launches. A complete list of all known river steamers is included in the statistical section.



LO YANG MARU

AREA—Japan. YEAR BUILT—1929. FLAG—Japanese. TONNAGE—4,378 (gross). LENGTH—330' (water line). BEAM—48'. SPEED—11 knots (cruising).





NAVAL STATUS—Captured at
Hankow, 12 August 1941.BEAM—46'.
MACHINERY—Reciprocating
steam.YEAR BUILT—1906.Steam.FLAG—British.FUEL—Coal.TONNAGE—3,923 (gross).SCREWS—2.LENGTH—330' (water line).NHP—292.

ANCIASSIF

HOYO MARU—No statistics available; name probably changed.



RIVER STEAMERS



HSING MARU

- AREA—Japan. Year Built—1929. Flag—Japanese.
- ▼ TONNAGE-239 (gross).

▼ Unidentified Chinese River Steamers. ▼



RIVER STEAMERS



UNGLASSIFIED IN MARU No. 15 (or AOI MARU) AREA-Japan. YEAR BUILT-1924. FLAG-Japanese. TONNAGE-290 (gross). TT LENGTH-140' (water line). MACHINERY-Reciprocating. D

KEI-HAN MARU

AREA-Japan. YEAR BUILT-1928. FLAG-Japanese. TONNAGE-342 (gross). LENGTH-160' (water line). ▼ ВЕАМ-25'.

Unidentified Japanese unit. **V**

ВЕАМ-21'.

FUEL-Coal. NHP-50.

HANG CHEONG

AREA-China. FLAG-British. TONNAGE-1,086 (gross). LENGTH-176' (water line). ВЕАМ-36'.



RIVER STEAMERS



CHIA LING MARU

AREA-Japan.

YEAR BUILT-1927. FLAG-Japanese.

TONNAGE—366 (gross).
 LENGTH—130' (water line).
 BEAM—24'.
 MACHINERY—Diesel.
 FUEL—Oil.
 SCREWS—2.

▼ Small modern Japanese and Chinese river steamers. ▼

MIDORI, SHIRADORI, and KYOSAKA MARU, ▼ which operate on Lake Biwa, Japan.



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From left to right—Hongkong river ferries, a typical small Malayan steamer for coastal and river service, and Siamese passenger steamer also serving $\mathbf{\nabla}$ as a tow launch.





▲ This type of river boat has become increasingly popular due to the need for supplies in otherwise inaccessible areas. Shown above from left to right are ▲ two Borneo types, one with, the other without passenger accommodations, and an Indo-Chinese cargo-passenger type ferrying a deck load of bombs.

Below—A typical Manchurian (SUNGARI River) paddle-wheeler, a 132', 730-passenger Burmese vessel, and an Indo-Chinese type. Notice that the lower ∇ deck of these vessels is fitted for animals or cargo, while the upper deck accommodates passengers. These ships are invariably roofed over.



SIDE-WHEEL RIVER STEAMERS



Photos on this page show the variety of types existing in this group. At left is a typical modern two-decker which operated on the Sungari River (Manchuria). At right is an old two-stack, one-deck cargo type built for coastal transport around Siam. Notice the curved, yacht-like lines.

The third type shown below serve mainly as towboats for river barges, but can also be used as passenger and cargo carriers. The ships shown in these photos are also Sungari River steamers. Notice the unmistakable bulge amidships on all these vessels.





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BURMESE SIDE-WHEELERS

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This type of shallow-draft passenger steamer is even more in evidence in the Orient than the stern-wheel type. The largest of these on which information exists are found in Burma, where 15 or more serve military needs on the Irrawaddy River and its tributaries. Some of these craft range up to 325' over all and can carry a cargo of 1,500 tons or up to 5,000 passengers. All serve double duty as towboats for the abundant river "flats," and as such are able to maintain a speed up to 14 knots, providing traffic and towload are light. Fuel used is normally a mixture of coal and wood, although each may be burned separately.

Photographs at the left show some clever natural camouflage used to hide these large ships from aerial attacks.

Burmese paddler similar to type shown above.

An IRRAWADDY paddler and two dumb cargo flats. \blacktriangledown

Sidewheeler with sponsons removed for mooring purposes. \blacktriangledown



CREEK STEAMERS



These vessels are small river steamers ranging upwards from 100' over all, with two or more passenger decks. The above photographs show typical creek steamers found in the Burma area.

Photo below shows an exceptional Siamese type. This ship is essentially a passenger launch, but is fitted with two decks. Modern type of Burmese creek steamer with a large towing platform on the fantail. Boats in the background are typical one-deck passenger launches.





- ▲ A 200′ Burma river flat being towed by an even longer river steamer (two-deek).
- - ▲ Burmese river flats.



▲ Photo above shows "railway flats" with freight cars aboard. Note the paddler towboat between the two ▲ flats in recco shot.



All of these craft are steel-hulled, dumb (non-self-propelled), and are usually towed alongside (in the case of flats) or behind paddle steamers and other towboats. Flats are merely large barges with a roofed-over hold. They range in size from 150' to 250' but maintain a maximum loaded draft of 5' to 6'.

RIVER FLATS

AND BARGES

Both barges and flats have performed invaluable inshore transport service as general cargo carriers (supplies, oil, military equipment, etc.), but use is now being limited by the shortage of towing vessels.

◄ Photos at left show several oil and cargo barges, differentiated from flats by their open holds and lack of roof cover.

BURMESE RIVER FLATS AND BARGES



▲ Above are two before-and-after sequences showing instances of improvised dummy ships observed in Rangoon. The upper left 250' cargo flat had two 40' to 50' sections cut out of the roof and sides of the super-structure, giving the vessel a three-island merchant ship appearance. A bridge and funnel were added amidships. The general effect was convincing, but the absence of any masts is noticeable.

This 200' by 27' roofless cargo flat was modified by placing a dummy bridge and funnel amidships with a deckhouse fore and aft. Hull shape and lack of freeboard would give this camouflage away. Instances of timber rafts converted to dummy vessels have also been observed.

Photo taken of KAPHA, Burma, showing a variety of side-wheelers, cargo flats and barges, two creek steamers, passenger launches, and a nest of native craft.

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PASSENGER LAUNCHES



Passenger launches are small steamers, 100' or less in length, with a single deck and steam, Diesel, or gasoline power. The most predominant type throughout the Far East is typified by the upper bank of photos on this page. Most of these craft will usually have a prominent stack and a canvas roof, with minor variations influenced by the type of power used. These launches serve as both passenger and cargo carriers and tow boats. As the craft get smaller in size they resemble the motorboats shown below, which are basically the same in appearance all over the world.

PASSENGER FERRIES

Because of its geography, Japan has had to rely a great deal on ferries of all sorts to promote efficient commercial traffic. This is also true of the river and coastal areas of the mainland. The smaller types shown on these pages are representative of the shortrun harbor and river craft designed for passenger and vehicle traffic. Notice that the single-ended types resemble and overlap the "river steamer" group.

DENTETSU MARU No. 1, No. 2, No. 3, No. 4, No. 5, No. 6

AREA—Japan. YEAR BUILT—1925. CAPACITY—170 passengers. TONNAGE—59 (gross). LENGTH—55' (water line). BEAM—14'. SPEED—6.5 knots (cruising). MACHINERY—Semi-Diesel. FUEL—Oil.





MOJI MARU

SHUN AN

YEAR BUILT-1932.

LENGTH-110' (water line).

BEAM-22', DRAFT-7'.

SPEED-12.5 knots (max.).

MACHINERY-Diesel. FUEL-Oil.

FLAG-Chinese.

NAVAL STATUS—Government requisitioned.
AREA—Japan; built to serve between Moji and Shimonoseki. Made 49 round trips per day.
YEAR BUILT—1914.
CAPACITY—1,055 third-class passengers.
TONNAGE—388 (gross); 527(dead weight).
LENGTH—121' (water line).
BEAM—30'.
FUEL—Coal.

AREA-China; built to serve between Amov and

CAPACITY-100 tons (cargo), 300 passengers.

Changchowfu, calling in at Shima.



MATSU MARU No. 1, No. 2 NAVAL STATUS—Government requisitioned. AREA—Japan. YEAR BUILT—1937. FLAG—Japanese. TONNAGE—129 (gross). LENGTH—85' (water line). BEAM—18'. MACHINERY—Diesel.

FUEL—Oil, Screws—2.

SHANGHAI GOVERNMENT FERRY No. 17

AREA—China; built to serve between Shanghai and Pootung. YEAR BUILT—1936. FLAG—Chinese. LENGTH—220' (water line). BEAM—21'. DRAFT—5'. MACHINERY—Diesel. FUEL—Oil.







INLAND TRAIN FERRIES

The larger mland sea and coastal train ferries are illustrated in the basic manual, ONI 208–J (Revised). Those typified on these pages represent only the smallest types in river and harbor service.

These vessels in general will range up to 500 gross tons, carry approximately 7 to 10 cars at a time, and are intended for very short runs only; as for example, from Honshu to Kyushu. Their adaptability to military traffic is obvious for inshore work. As in the case of other ships, the newer ferries are mostly Diesel-powered, the others steam-driven.





▼ CHANGIANG (or CHANGKIANG) ►

AREA-China; built to serve Yangtze River between Nanking and Pukow. YEAR BUILT-1933. FLAG-Chinese. CAPACITY-Three trains of 7 wagons each. TONNAGE-2,862 (g r o s s); 1,550 (d e a d weight). LENGTH-361' (water line). BEAM-56'. MACHINERY-Reciprocating. FUEL-Coal. NHP-246.
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INLAND TRAIN FERRIES KANMON MARU AREA-Japan. No. 1, No. 2, No. 3, No. 4, No. 5 YEAR BUILT-1919. FLAG-Japanese. TONNAGE-463 (No. 1, No. 2), 493 (No. 3, No. 4), 502 (No. 5) (gross). 12002 LENGTH-176' (water line). BEAM-26'. MACHINERY-Reciprocating. FUEL-Coal. · D OD NHP-87.



55 Notice general resemblance of this ship to the sidewheelers shown under Passenger Steamers. AREA—Japan; built to serve the straits between Aomori and Hakodate and between Shimonoseki and Fusan, and principal coaling centers of Japan.

YEAR BUILT—1929. FLAG—Japanese. TONNAGE—313 (gross). LENGTH—150' (water line). BEAM—32'. DRAFT—5'6''. SPEED—8.5 knots (cruising). Machinery—Diesel. FUEL—Oil. Screws—2.



CARGO CARRIERS



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Over one-third of the merchant tonnage observed in Japan's ports today is allocated to vessels of 1,000 gross tons or less. As tightening aerial and naval patrols make further inroads on Japanese shipping, the enemy will be forced to rely even more on small freighters and tankers in a desperate effort to maintain supply lines.

As in other small craft groups, the cargo carriers vary widely in appearance, but with the exception of sailing freighters, similarity in basic design features is sufficient to permit application of the JMST method of coding and reporting. A small number of pre-war cargo types are marked by bridge and stack amidships (Fox Tare Dog), but a large majority of small merchantmen are engines-aft types, with or without a forward island, and consequently are coded in the "Sugar" division of the JMST code. Other expressions covering groups which do not necessarily fall into appearance categories have been adopted. The term "sea truck" (KAIJO TORAKKU) is generally applied to cargo carriers of 100 to 1,000 gross tons in size; freighters smaller than 100 gross are known as "luggers."

Fox Tare Dog

The small freighter transport, generally of pre-war design, is a smaller counterpart of its larger brothers and is marked by bridge and funnel amidships or slightly aft of amidships. Characteristic of the "Dog" classification are the three hatches, two forward and one aft, and the off-center mainmast.

Sugar Charlie Sugar, Sugar Baker Sugar, Steel Sea Trucks

In accordance with other trends in standardization, the "economy hull" (sharp stem, angular shape, broad beam in relation to length, cruiser stern) is in widest production today. Most common of the "economy design" sea trucks is the standard Type "E" (or its modification), an 850-ton collier type built in five prefabricated sections. Propulsion may be either Diesel or reciprocating—there have been rumors of conversion to coal for fuel as Japan's oil reserves are diminished, and it is possible that the tall, coal burner stack will again make its appearance.

Sugar Dog, Wooden Sea Truck

Representatives of the wooden sea truck group can be noted in any Japanese harbor today and have been observed building on small ways scattered 57 from the northernmost Kuriles to the South Seas. These ships are slow, Diesel-powered, marked by foremast, generally at break in forecastle, single forward hatch, superstructure aft, small funnel, and mainmast abaft stack. Arbitrary size range has been set at 100–120 feet, but may vary at either extreme.

Sugar Dog, Lugger

The "lugger" is a smaller counterpart of the sea truck. Originally a fishing type, identity as a cargo type is dependent on the size of its single hatch forward. One collapsible mast is stepped forward, and auxiliary sails are sometimes used to supplement a small Diesel or gasoline engine. These vessels, with wooden sea trucks, are the primary components of the famous wooden shipbuilding program. Although the Japanese have advertised this program through widespread propaganda, it is doubtful that production goals have been attained.

Sugar Able Sugar, Small Tanker

Innumerable reports have dealt with Japan's large tanker losses and the gravity of her fuel situation. A natural result has been a strenuous effort to construct small tankers based on the "economy hull design" which can be produced in mass quantity. The small standard tanker is very similar in size and appearance to the standard Type "E" sea truck.

Sailing Freighters

Vessels rigged for oceangoing duty, whose employment is widespread, have been defined as freighters rather than native sailing types. Such types including schooners, sloops, ketches, barks, etc., are differentiated by arrangement of their sailing rig and are generally marked by the use of auxiliary power and appearance of permanent deck house aft. Evolution of the wooden sea truck from its sailing predecessor is apparent.

Wartime Operation

In addition to performing as merchantmen, small cargo ships may occasionally take on naval functions. A great many cargo types are known to operate as converted net tenders, or as small minesweepers. Generally, the small carrier is slow, lightly armed and consequently vulnerable to attack. In tropical areas the sea truck or lugger makes full use of protective vegetation, pursuing a course as close to shore as possible, ofttimes hiding in concealed inlets during daylight hours, following tactics similar to Japanese landing craft. Even the small lugger is equipped with some form of radio gommunication and serves as part of an aircraft or submarine warning system.



KINESAKI (ex AG NANSHIN), HAYASAKI, SHIRASAKI, ARASAKI

NAVAL STATUS—Fleet auxiliaries. FLAG—Japanese. TONNAGE—946 (gross). DIMENSIONS—232' (o. a.) x 33'. ARMAMENT—Capable of mounting two 3''/40 guns, one on the forecastle and one at the stern. REMARKS—KINESAKI units are listed by the Japanese as AO's, although they probably also are used as supply ships and are equipped for repair work. KINE-SAKI has been reported doing tender duty.

HADACHI MARU (or HANEDATI MARU)

NAVAL STATUS—XAO; Government requisitioned. Area—Japan.

YEAR BUILT-1936.

FLAG-Japanese.

TONNAGE—999 (gross); 1,350 (estimated dead weight).

DIMENSIONS—216' (water line) x 32'. Speed—10.5 knots (cruising).

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▼ HAYASAKI at Simpson Harbor, Rabaul, same date.



▼ Two units photographed at Rabaul, 2 November 1943.



COASTAL TANKER "Sugar Baker Sugar"

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HO KWANG

AREA—China; built for service on Yangtze River. YEAR BUILT—1931.

TONNAGE-684 (gross); 1,200 (displ.). DIMENSIONS-200' (w. l.) x 32' x 9.8'. SPEED—9.3 knots (cruising). MACHINERY—Diesel; r.p.m., 330. NHP—276. REMARKS—Normal round trip 1,400 miles.

TOKYO MARU

AREA-Japan. YEAR BUILT-1937. TONNAGE-903 (gross); 1,089 estimated dead weight). DIMENSIONS—198' (water line) x 30'. Speed—10 knots (cruising). Machinery—Diesel; NHP, 164.



TAKATORI MARU No. 2

TYPE—Tanker, water-supply ship. NAVAL STATUS—Japanese Government requisitioned. YEAR BUILT—1931. CAPACITY—84 tons (cargo); 50 tons (fuel bunker). TONNAGE-500 (gross); 592 (dead weight).

DIMENSIONS—170' (water line) x 27'. SPEED—10 kts. (cruising); 12 (max.). MACHINERY—Diesel; NHP, 117. FUEL—Oil (1.9 tons used daily).

FUNAGAWA MARU (ex FUNAGAWA MARU No. 38)

NAVAL STATUS—Japanese Government requisitioned. YEAR BUILT—1929. TONNAGE—865 (gross), 1,034 (est. dead weight). DIMENSIONS—185' (water line) x 30'. Speed—9.5 knots (cruising). Machinery—Reciprocating, NHP, 67. Fuel—Coal.



TANKERS, STANDARD TYPES "Sugar Able Sugar"



GROSS TONNAGE-1,000. DISP. TONNAGE-1,250 (loaded). LENGTH-210' (o. a.)? BEAM-33.5'? DRAFT-15.5' (loaded).

Speed—10 knots (normal cruising). Machinery—Reciprocating IHP—950. Cargo Booms—One 1-ton. Capacity—11,000 bbl.

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STANDARD TYPES "Sugar Able Sugar" TANKERS

Two versions of small tankers with "economy" hull designs have been observed in quantity, both closely similar to the Type "E (Modified)" cargo carrier in dimensions and general design features. Although no statistics are available, tonnage is believed to approximate closely that of the "E (Modified)" vessels. Note that the trunked-deck version, which probably has a slightly larger barrel capacity, burns coal while the other small-stack design is probably Diesel-powered.

Full information on the other Japanese standard wartime merchant ship types is contained in ONI 208–J, Supplement 3. Types "E" and "F" are shown on page 74 of this manual.





COASTAL TANKERS "Sugar Able Sugar"



- ▲ Notice the trunked well deck, a common structural feature in these small tankers.
- ▼ An unidentified trunk-decked coastal tanker sighted off Saipan, 23 February 1944.





NAVAL STATUS—Scuttled at SOER-ABAJA, 2 March 1942; probably raised.

AREA-Java.

YEAR BUILT-1939.

FLAG-Dutch.

TONNAGE-344 (gross); 391 (dead weight); 160 (net).

LENGTH-136' (water line).

BEAM-29'. DRAFT-8.5'. SPEED-8.5 knots (cruising). MACHINERY-Diesel. R. P. M.-330. FUEL-Oil. SCREWS-2. BHP-170; NHP-140.

COASTAL CARGO SHIPS

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This category includes all powered cargo carriers between 300 and 1,000 gross tonnage, except barges. For recognition purposes, this group is divided into "Fox Tare" (enginesamidships freighters) and "Sugar" types (en-

Chart of approximate tonnage/length relationship

x denotes actual examples. Note.—To estimate over-all length, add 11' to the bp. figure shown.

visual sightings.

gines-aft freighters). In the grant blow these are all lumped together under "steel sea

trucks." This chart is included as an aid to

preparing accurate tonnage estimates from



overall Specifications

GHOSS TONNAGE-300 to 1,000. D. W. TONNAGE-320 to 1,615. LENGTH-120' to 230' (over all). BEAM-23' to 33' (over all). DRAFT-8.2' (average empty); 15.3' (average loaded). SPEED-14.5 to 16 knots, Max. (9 average), Diesel. 7 to 10 knots (9 average), steam. MASTS-1 to 3 (some are goal-post type). DERRICKS-Three 3-ton (average). HATCHES-2 to 3 (2 average). PROPULSION-Diesel or steam engines. FUEL-Oil or coal. CARGO CAPACITY-433 to 1,834 tons (764 average), Diesel. 430 to 1,680 tons (1,087 average), steam. FUEL CAPACITY-9 to 85 tons (32.3 average), Diesel. 41 to 200 tons (107 average), steam. FUEL CONSUMPTION-9 to 3.2 tons daily (1.8 average), Diesel. 7.2 to 17 tons daily (11.8 average). steam. ARMAMENT—Capable of mounting one 3''/40 bow gun and several heavy and light machine guns. A single 150 mm. mortar is sometimes carried. ENDURANCE 18 days (estimated), Diesel.

ays (estimated), Diese

COASTAL FREIGHTERS

RECOGNITION OF COASTAL CARGO SHIPS

"Fox Tare" freighters under 1,000 gross tons are usually merely reduced versions of the larger types. For this reason they have always been over-estimated in size, unless neighboring ships could be used as a guide.

These vessels always have a short composite superstructure amidships and an MFM or MKFM arrangement of verticals. They can always be identified as cargo carriers by their large hatches and heavy kingposts and booms.

"Sugar" freighters, or sea-trucks can best be described as including all engines-aft freighters between 120' and 200' in length, and with one or two hatches in the amidships cargo well. Foremast and mainmast usually abutt the forecastle and bridge, although a few have their masts centered in the well. The most important of these designs from a recognition standpoint are the standard "E" and "F" types.



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TOYO MARU No. 3

NAVAL STATUS—XYN; indicator net tender; Gov- ernment requisi- tioned.	LENGTH—210' (bp); 221' (o. a.). ► BEAM—32'. DRAFT—16' (loaded); 7.5' (light).
AREA—Japan.	SPEED-13 knots (light); 11 knots
YEAR BUILT—1925.	(loaded, max.).
FLAG—Japanese.	MACHINERY-Reciprocating.
TONNAGE—981 (gross); 1,516 (dead	FUEL-Coal (13 tons daily).
weight); 569 (net).	NHP-102.



Division of Naval Intelligence SANYO MARU (ex JACOB DIEDERICHSEN)



YEAR BUILT-1892. FLAG-Japanese. TONNAGE-971 (gross); 1,250 (dead weight); 697 (net). LENGTH-206' (bp); 214' (o. a.).

SEKINO MARU

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AREA-Japan. YEAR BUILT-1918. FLAG-Japanese. CAPACITY-1,720 tons (cargo); 120 tons (fuel bunker). TONNAGE—-997 (gross): 1.062 (dead weight). LENGTH-196' (bp); 202' (o. a.).

SPEED-10 knots (loaded). MACHINERY-Reciprocating. FUEL-Coal (12 tons daily). NHP-93.

ВЕАМ-32'. DRAFT-16' (loaded); 5' (light). SPEED-8.5 knots (cruising). MACHINERY-Reciprocating. FUEL-Coal (15 tons daily). NHP-75. REMARKS-Three 1½-ton derricks.

"Fox Tare Dog" COASTAL FREIGHTERS



AREA-Japan. YEAR BUILT-1918. FLAG—Japanese. TONNAGE-982 (gross); 1,700 (dead weight); 565 (net). LENGTH-202' (bp); 210' (o. a.). ВЕАМ-29'.

DRAFT-16.5' (loaded). Speed—7.5 knots (cruising); 9 knots (max.).MACHINERY—Reciprocating. FUEL-Coal (12 tons daily). NHP-68.

HORONAI MARU (ex TSUKUBA MARU)

AREA-Japan. YEAR BUILT-1918. FLAG-Japanese. TONNAGE-995 (gross); 1,550 (dead weight); 672 (net). LENGTH-196' (bp); 202' (o. a.)

ВЕАМ----32'. SPEED-9.5 knots (max.). MACHINERY-Reciprocating. FUEL-Coal (12 tons daily). NHP-74. ~

COASTAL FREIGHTERS "Fox Tare Dog"



BEAM-31'.

SPEED-9.7 knots (max.): 8 knots

(cruising).

MACHINERY-Reciprocating.

FUEL-Coal (12.5 tons daily).

KIRISHIMA MARU No. 20

AREA—Japan. YEAR BUILT—1918. FLAG—Japanese. TONNAGE—940 (gross); 1,600 (dead weight); 633 (net). LENGTH—190' (bp); 204' (o. a.).



NAGARAGAWA MARU, INABAZAN (INABASAN) MARU



AREA-Japan. YEAR BUILT-1917. FLAG-Japanese. TONNAGE-983 (gross); 1,511 (dead weight); 587 (net). LENGTH-190' (water line); 200' (o. a.). Веам---32'.

DRAFT-16.5' (loaded); 7.5' (light). SPEED-10 knots (max.); 8 knots (cruising).

MACHINERY—Reciprocating. FUEL—Coal (11 tons daily).

TOKIWA MARU No. 1

NAVAL STATUS—Government requisitioned.BEAM—31'.AREA—Japan.DRAFT—14' (losYEAR BUILT—1923.SPEED—10 knotFLAG—Japanese.(lightTONNAGE—892 (gross); 1,120 (estimated dead weight).MACHINERY—RLENGTH—190' (bp); 198' (o. a.).NHP--97.

DEAM-51. DRAFT-14' (loaded); 6.5' (light). SFEED-10 knots (loaded); 12 knots (light). MACHINERY-Reciprocating. FUEL-Coal. NHP-97.



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KOGA MARU

NAVAL STATUS—XYN; Government requisitioned. AREA—Japan. YEAR BUILT—1940. TONNAGE—909 (gross); 1,301 (dead weight). LENGTH—187' (water line) BEAM—31' SPEED-11.5 knots (max.); 8 knots (cruising). MACHINERY-Diesel. NHP-130. FUEL-42 tons, oil (2.5 tons daily). ARMAMENT-One 3" gun, 3 MG's. REMARKS-Six 5-ton derricks.

TOYAMA MARU

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- NAVAL STATUS—Government requisitioned.
- AREA-Japan. YEAR BUILT-1919.
- TONNAGE—917 (gross); 1,375 (dead weight); 545 (net).
- LENGTH—185' (bp); 199' (o. a.).

ВЕАМ-30'.

DRAFT—16' (loaded); 5.5' (light). SPEED—8.5 knots (loaded). 9.5 knots (light). MACHINERY—Reciprocating. FUEL—Coal (11 tons daily). NHP—70.

DE

UJI MARU

NAVAL STATUS—XYN. Government requisitioned. AREA—Japan. YEAR BUILT—1940. TONNAGE—873 (gross); 1,300 (d. w.).

LENGTH-185' (water line). BEAM-31'. SPEED-12.4 knots (max.); 10 knots (cruising). MacHINERY-Diesel. HP-750. FUEL-Oil. ARMAMENT-One 3.1'' deck gun.





"Fox Tare Dog" COASTAL FREIGHTERS

SHUKO MARU 885 gross-ton freighter.

UNCOASTAL FREIGHTERS "Fox Tare Dog"



KOSEI MARU

NAVAL STATUS—Government requisitioned.LENGAREA—Japan.BEANYEAR BUILT—1940.SPEEFLAG—Japanese.MACCAPACITY—79 tons (fuel bunker).FUENTONNAGE—865 (gross).REM.

LENGTH-185' (water line). BEAM-31'. SPEED-8.5 knots (cruising). MACHINERY-Diesel. FUEL-Oil (2.5 tons daily). REMARKS-Oil eargo in drums.



KOGI MARU

NAVAL STATUS—XYN; indicator net tender; Government requisitioned. AREA—Japan. YEAR BUILT—1940. FLAG—Japanese.

Tonnage—857 (gross). Length—185' (water line). Beam—31'. Machinery—Diesel, Fuel—Oil, NHP—103.

Unidentified modern freighter which may be one of a standard class.



FLAG—Japanese. Tonnage—704 (est. gross). Length—180' (est. o. a.). Beam—30' (est.).



"Fox Tare Dog" **COASTAL FREIGHTERS**

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MISAKI MARU No. 2



NHP-88.

BESTRICTED

YEAR BUILT-1917. FLAG-Japanese. TONNAGE-765 (gross); 1,300 (dead weight); 543 (net). LENGTH-180' (bp). ВЕАМ-29'.

TARUMI MARU

NAVAL STATUS-Government requisitioned. YEAR BUILT-1921. FLAG-Japanese. TONNAGE-727 (gross); 1,100 (dead weight); 409 (net). LENGTH-177' (bp); 190' (o. a.).

BEAM-29'. DRAFT-14.5' (loaded); 9.9' (light). Speed-9 knots (loaded); 10.5 knots (light). MACHINERY-Reciprocating. FUEL-Coal (8.5 tons daily). NHP-68.

Speed-10 knots (max.): 8 knots

(cruising).

MACHINERY-Reciprocating.

FUEL-Coal (8 tons daily).

TORAI MARU (ex HIMURO MARU)

TONNAGE-702 (gross); 386 (net).

LENGTH-180' (bp); 189' (о. а.).

AREA-Japan.

FLAG-Japanese.

NAVAL STATUS—Government requi- sitioned.	LENGTH-175' (water line). BEAM-28'.
YEAR BUILT-1922.	DRAFT-14.5' (loaded): 7.5 (light)
FLAG-Japanese.	SPEED-10 knots (loaded)
CAPACITY-407 tons (cargo; part refrigerated).	FUEL-125 tons (13 tons daily).
Tonnage—643 (gross); 746 (d. w.).	REMARKS—Two 3-ton derricks.



BEAM-27'. MACHINERY-Reciprocating. FUEL-Coal (87 tons).



STATUS—Captured.	LENGTH-159' (water line).
AREA-JAVA.	Велм—30'.
YEAR BUILT-1938.	MACHINERY-Diesel.
FLAG-Dutch.	FUEL-Oil.
Tonnage—495 (gross).	NHP-80.

UJINA MARU

AREA—Japan. FLAG—Japanese. LENGTH-185' (est. o. a.).







AREA-Japan. YEAR BUILT-1916. FLAG-Japanese. TONNAGE-629 (gross); 890 (dead weight); 379 (net). LENGTH-168' (bp); 176' (o. a.). BEAM-27'. DRAFT-17' (loaded); 11' (light). SPEED-9.5 knots (cruising). MACHINERY-Reciprocating. FUEL-Coal, 130 tons (7 tons daily). NHP-45.

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AZUSA MARU

AREA-Japan. YEAR BUILT-1941-42. FLAG-Japanese. TONNAGE-540 (gross). Speed-10 knots (max.).



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HANKOW MARU

AREA—Japan. TONNAGE—517 (gross); 1,319 (dead weight). LENGTH—155' (est. water line). SPEED-11.5 knots (max.). MACHINERY-Diesel. FUEL-Oil. HP-600.

YOSHITOMO MARU No. 16 (may be known as RYOYO MARU No. 16)



AREA—Japan.
YEAR BUILT—1935.
FLAG—Japanese.
CAPACITY—581 tons (cargo).
TONNAGE—323 (gross); 420 (dead weight).
LENGTH—120' (water line).
BEAM—23'.
SPEED—9 knots (max.); 6 knots (cruising).
MACHINERY—Diesel.
FUEL—Oil, 9.2 tons (1 ton daily).
REMARKS—Three 1½-ton derricks. Photo taken off MUSHU Island, 22 October 1943.



'Fox Tare Dog"

Unidentified, may be a standard type

Area—Japan. Flag—Japanese. Tonnage—580 (est. gross). Length—172' (est. o. a.) REMARKS—Seen in reconnaissance over Saipan, 15 June 1944.

COASTAL FREIGHTERS

Unidentified ship; believed to be one of a large class

AREA—Japan.
YEAR BUILT—1936.
FLAG—Japanese.
CAPACITY—734 tons (cargo).
TONNAGE—498 (gross); 750 (dead weight).
LENGTH—145' (water line).
BEAM—28'.
DRAFT—13'.
SPEED—9 knots (cruising).
MACHINERY—Diesel.
FUEL—Oil, 47 tons (1.9 tons daily).
REMARKS—Two 3-ton derricks.



MISCELLANEOUS COASTAL FREIGHTERS "Fox Tare Dog"



HONG KWONG

STATUS—Captured. AREA—Sumatra. YEAR BUILT—1927. FLAG—British. TONNAGE—207 (gross). LENGTH—115' (water line). MACHINERY—Steam reciprocating. FUEL—Coal.

Shown below and on the opposite page are a number of unidentified Japanese and Chinese coastal freighters, all of which are under 1,000 gross tons. Almost every one of these vessels, if judged individually without scale,



LA ESTRELLA CALTEX (ex LA ESTRELLA TEXACO)

STATUS—Captured. AREA—Philippine Islands. YEAR BUILT—1931. FLAG—American. TONNAGE—495 (gross). LENGTH—145' (water line). BEAM—28'. Machinery—Diesel. Fuel—Oil.

would be greatly overestimated in length and tonnage. For this reason, it is important to check sightings of smaller freighters with certain standards, such as the single lifeboats, or deck heights.









ILLA











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STANDARD STEEL SEA TRUCKS

Type "E" and modifications

One of the most important developments in Japanese merchant ship construction has been the design and production of the small standard cargo carrier and collier. This type has been designated Type "E (modified)" by the Japanese, who are mass-producing these ships on assembly lines at Wakamatsu in the Yawata area. It is believed that from 200 to 300 have already been constructed with a total tonnage of considerably over 200,000 gross tons—a substantial addition to Japan's dwindling merchant fleet. While the range of this type is small, these ships have been observed as far south as Takao and Manila, and should prove adequate for routes along the China Coast and across the Japan Sea.

The design of the vessel is similar in most respects to other vessels in the new standard categories. Prominent bridge and stack at the after end of the vessel and the markedly angular hull shape with pointed bow and sharply tapered, squared-off stern are characteristic. Variations in design occur within the type and two specified modifications are known to exist. Major differences occur in the location of masts, design of superstructure, and the stack size.

"Sugar Charlie Sugar" STANDARD STEEL SEA TRUCKS

TYPE ``F''

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This type is thought to resemble the Type "E" but it has been impossible to date to obtain an accurate description.

TONNAGE—495 (gross). 730 (displ.). LENGTH—Unknown. DRAFT—12.5'. SPEED—10 knots (cruising). MACHINERY—Diesel. SHP—400. SCREWS—1. REMARKS—Four 5-ton derricks.

AREA-Japan. YEAR BUILT-1943-44. FLAG-Japanese. TONNAGE-830 gross (E), 860 (E-1). LENGTH-210' (o. a.). ВЕАМ-36'. Draft-14.7'. SPEED-10 knots (E), 7 knots (E-1) cruising. MACHINERY-Diesel. Screws-1. SHP-750 (E), 400 (E-1). REMARKS—Three (E) or four (E-1) 3-ton and two 5-ton derricks. YEAR BUILT-1943-44. FLAG-Japanese. TONNAGE-880 (gross). 1,586 (displ., loaded). Length-ВЕАМ-36'. DRAFT-14.7'. Speed-7 knots (cruising). MACHINERY-Reciprocating. FUEL-Coal. SCREWS-1. IHP-400.



TYPE "E2" (MODIFIED)





STEEL SEA TRUCKS "Sugar Charlie Sugar"





AREA—Japan. YEAR BUILT—1909. FLAG—Japanese. CAPACITY—1,123 tons (cargo). TONNAGE—741 (gross); 1,040 (dead weight). LENGTH-181' (water line). BEAM-30'. SPEED-9.5 knots (cruising). MACHINERY-Reciprocating. FUEL-Coal, 104 tons (9 tons dai'y). REMARKS-Four 5-ton derricks.

BEAM-27'. DRAFT-14.5' (loaded).

SPEED-10 knots (light).

MACHINERY-Reciprocating.

MATSU MARU

NAVAL STATUS-XYN. YEAR BUILT-1928. FLAG-Japanese. TONNAGE-690 (gross); 1,040 (d. w.). LENGTH-176' (bp); 188' (o. a.).



DAIKOKUZAN MARU (ex FUKUTOMI MARU No. 2)



AREA-Japan. YEAR BUILT-1911. FLAG-Japanese. TONNAGE-689 (gross); 1,143 (dead weight); 420 (net). LENGTH-188' (bp); 198' (o. a.).

Unidentified Type

AREA-Japan. Year Built-1936. Tonnage-508 (gross). LENGTH-176' (water line). BEAM-29'.

SPEED-9 knots (light).

NHP-53.

MACHINERY-Reciprocating.

FUEL-Coal (8 tons daily).

DRAFT-16.5' (loaded); 7' (light).



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LENGTH-171' (water line).

MACHINERY-Diesel.

BEAM-29'.

FUEL-Oil.

PALAWAN

STATUS—Captured. AREA—Philippine Islands. YEAR BUILT—1927. FLAG—American. TONNAGE—562 (gross).

AREA—Japan. YEAR BUILT—1919. FLAG—Japanese. CAPACITY—979 tons (cargo). TONNAGE—633 (gross); 946 (dead weight); 1,383 (displ.).



LENGTH—165' (water line). BEAM—29'. DRAFT—4.7' (light); 5.8' (ballast); 13' (loaded). SPEED—8.3 knots (loaded); 10 knots (light). MACHINERY—Reciprocating. FUEL—Coal, 100 tons (12.5 tons daily). NHP—54; BHP, 420; IHP, 1,250. REMARKS—Crew, 27; two 3-ton derricks forward.



SANKO MARU



STEEL SEA TRUCKS "Sugar Charlie Sugar" MARIAN, ROKAN, KAMPAR, MANDAR, MAPIA, MANIPI



NAVAL STATUS-MAKIAN and sisterships captured. MAPIA was attacked by Japanese at Nelragiri River. N. E. I., 23 February 1942. Believed raised and again in commission.

AREA-JAVA. YEAR BUILT-1928. FLAG-Dutch. TONNAGE-568 (gross); 400 (dead weight); 783 (displ.). LENGTH-165' (bp); 172' (o. a.). ВЕАМ-29'. SPEED-8 knots (loaded). MACHINERY-Diesel. R. P. M.-275. FUEL-Oil. BHP-250; NHP, 122. REMARKS-Two 2-ton derricks.



SYUNZAN MARU No. 2 (ex SHUNZAN MARU No. 2)

NAVAL STATUS-Government requisitioned. AREA-Japan. YEAR BUILT-1934. FLAG-Japanese. TONNAGE-608 (gross); 400 (dead FUEL-Oil, 60 tons (1.8 tons daily). weight); 469 (net).

LENGTH-163' (water line). DRAFT-13.8' (loaded); 4.9' (light). SPEED-9.5 knots (loaded); 11 knots (light). MACHINERY-Diesel.

TENRYU MARU, KISO MARU

AREA-Japan. YEAR BUILT-1939. FLAG-Japanese. CAPACITY-890 tons (cargo). TONNAGE-555 (gross); 754 (dead weight). LENGTH-158' (water llne).

BEAM-28'. SPEED-9 knots (cruising). MACHINERY-Diesel. FUEL-Oil, 23 tons (1.6 tons daily). NHP-98. REMARKS-Two 4-ton derricks.





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STATUS—Captured. AREA—China. YEAR BUILT—1937, FLAG—British. TONNAGE—434 (gross). LENGTH—152' (water line). BEAM—28'. MACHINERY—Diesel. R. P. M.—330. FUEL—Oil. BHP—200. REMARKS—12 first-class passengers accom-

modated.



"Sugar Charlie Sugar" STEEL SEA TRUCKS

YANAWAI



REMARKS—Standard Type "F" cargo is believed to be similar in appearance. See preceding pages for statistics.



AREA—Japan. YEAR BUILT—1935. FLAG—Japanese. CAPACITY—857 tons (cargo). TONNAGE—485 (gross). LENGTH—140' (water line). BEAM—29'. SPEED—10 knots (cruising). MACHINERY—Diesel. FUEL—Oil, 41 tons (2.3 tons daily). ARMAMENT—One 3'' gun amidships; possibly

MG.





STEEL SEA TRUCKS "Sugar Charlie Sugar"



TOSEI MARU No. 1

NAVAL STATUS—Government requisitioned. AREA—Japan. YEAR BUILT—1940. FLAG—Japanese. Tonnage—543 (gross). Length—150' (water line).⁸ Beam—29'. Machinery—Diesel. Fuel—Oil.

TAKACHIHO MARU

NAVAL STATUS—XAM; Government requisitioned. AREA—Japan. YEAR BUILT—1937. FLAG—Japanese. TONNAGE—343 (gross). LENGTH—130' (water line). BEAM—23'. DRAFT—12'. SPEED—9 knots (est. cruising). Machinery—Diesel. FUEL—Oil. REMARKS—Some cargo space refrigerated.





MOTOYAMA MARU No. 1 (ex TOSO MARU); may be known as GENZAN MARU

AREA—Japan. YEAR BUILT—1936. FLAG—Japanese. CAPACITY—507 tons (cargo). TONNAGE—371 (gross). LENGTH—130' (water line).

SENYO MARU No. 5

AREA—Japan. Year Built—1937. Flag—Japanese. BEAM-24'. SPEED-10 knots (max.); 8 knots (cruising). Machinery-Diesel. Fuel-Oil, 14 tons (1.5 tons daily). Remarks-Two 1.5-ton derricks.

TONNAGE-370 (gross). Length-125' (water line). Beam-26'.



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KIKU MARU Area—Japan. Year Built—1934. Flag—Japanese.

TONNAGE-297 (gross); 370 (dead

weight).

LENGTH-120' (water line).

BEAM-23'. SPEED-9 knots (cruising). MACHINERY-Diesel. FUEL-Oil. ARMAMENT-One 3" gun forward; two MG's on bridge.



"Sugar Charlie Sugar"

FUJI MARU

AREA—Japan. YEAR BUILT—1921. FLAG—Japanese. TONNAGE—273 (gross). 406 (dead weight). LENGTH—118' (est. o. a.). SPEED-8.5 knots (cruising). REMARKS — This cargo carrier is an example of a pre-war steel sea truck under 300 gross tons. Most of the cargo carriers of this size constructed since the war are of wood, although the design is practically duplicated.

STEEL SEA TRUCKS

Two unidentified steel sea trucks photographed over Rabaul (left) and Lele Harbor, Kusaie, during 1943. The amidships goal posts on the ship to the left is an unusual feature in sea trucks.





The ships illustrated on this page are unidentified pre-war steel seatrucks. Each represents a variation in design which is generally applicable to a number of vessels of this cargo-carrying type.

A complete list of all known steel sea trucks is included in the "freighter" list, which is run in the statistical section of this manual.





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This type is distinguished by its bridge located amidships

"Sugar Baker Sugar" STEEL SEA TRUCKS





TSUKUSHI MARU No. 3

AREA—Japan.	Length-225' (bp); 236' (o. a.).
YEAR BUILT-1927.	Велм-33'.
Flag—Japanese.	Speed—9 (est. cruising).
TONNAGE-999 (gross); 1,543 (est. dead weight).	FUEL-Coal.

SHIOYA MARU

CARD

YEAR BUILT—1917. FLAG—Japanese. CAPACITY—1,210 tons (cargo). TONNAGE—749 (gross). LENGTH—182' (bp); 192' (o. a.). BEAM—27'. DRAFT—(13.9' loaded).

H

SPEED-7 knots (loaded); 9 knots (light). MACHINERY-Reciprocating. FUEL-Coal, 116 tons (10 tons daily). REMARKS-Three 5-ton derricks.



BEROUW

STATUS—Captured. AREA—Java. FLAG—Dutch. YEAR BUILT—1919. TONNAGE—756 (gross); 927 (est. dead weight); 321 (net). LENGTH—184' (bp); 194' (o. a.). BEAM—29'. MACHINERY—Reciprocating. FUEL—Coal. NHP—63.

JIRO MARU

AREA—Japan. TONNAGE—840 (gross). LENGTH-180' (water line). BEAM-32'.





BANSHU MARU No. 3 (ex BANSHU MARU No. 88)

NAVAL STATUS-XAF; Government requisitioned. YEAR BUILT-1934. TONNAGE-725 (gross). DIMENSIONS-170' (water line) x 30' x 14'. SPEED—9 knots (cruising). MACHINERY—Diesel; NHP, 395. REMARKS—Carrying capacity of fresh provisions, 200 tons, partially refrigerated.



BANSHU MARU No. 15 (ex BANSHU MARU No. 89-39)

AREA—Japan. YEAR BUILT—1934. FLAG—Japanese. TONNAGE—363 (gross). LENGTH—135' (water line). BEAM—25'. SPEED—9 knots (est. cruising). MACHINERY—Diesel. FUEL—Oil. NHP—282. REMARKS—Partially refrigerated.

Unidentified Sea Truck

AREA-Japan. YEAR BUILT-1942. TONNAGE—529 (gross); 750 (dead weight). LENGTH—158' (est. water line). Speed—10 knots (cruising). MACHINERY—Diesel. FUEL—Oil, 34 tons (1.8 tons daily). Identical to SHINYU MARU.





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FUJI MARU, KISO MARU, ASO MARU



ESTRICTED



NAVAL STATUS—All are listed as XPG's and AK's; Government requisitioned. AREA—Japan.

YEAR BUILT-1933. FLAG-Japanese. CAPACITY-1,050 tons (cargo); 45 tons (refrig.). TONNAGE—704 (gross); 750 (dead weight). LENGTH—170' (water line); 180' (o. a.). BEAM—30'. DRAFT—13' (loaded). SPEED—11 knots (cruising); 13.5 knots (max.). MACHINERY—Diesel. FUEL—Oil. REMARKS—Partially refrigerated.

NULASSIE



"Sugar Baker Sugar" STEEL SEA TRUCKS

▼ Two unidentified Japanese sea trucks. ▲



This type is distinguished by its single continuous hatch and funnel placed aft.



"Sugar Dog"

MOMO MARU

TEEL SEA

Area—Japan. Year Bullt—1936. FLAG—Japanese. CAPACITY—793 tons (cargo). TonNaGE—443 (gross); 700 (dead weight). LENGTH—149' (water line). BEAM-27'. Speed-9.5 knots (cruising). Machinery-Diesel. Fuel-Oil, 23 tons (1.5 tons daily). Remarks-One 2-ton, one 4-ton derrick.



TOUN MARU No. 1, No. 2, No. 3, No. 4, No. 5

AREA-Japan. Year Built-1937. Flag-Japanese. Tonnage-483 (gross). Length-154' (water line). Beam-30'. Speed—10.6 knots (cruising). REMARKS—Open-bottom type earth transport owned by Japanese Government Department of Home Affairs.

BRUNEI

STATUS—Scuttled, Singapore, 16 February 1942; probably salvaged. AREA—Malay. YEAR BUILT—1930. FLAG—British. TONNAGE—101 (gross). LENGTH—81' (water line). BEAM—21'. MACHINERY—Diesel. FUEL—Oil. REMARKS—Although this ship is wood-hulled, it is representative of the smaller cargo types which may be encountered in the sea truck category.

 \blacksquare An unidentified steel sea truck.





MISCELLANEOUS FREIGHTERS

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CARGO-CARRYING SAILING VESSELS

Pre-war registry lists 2,255 sailing ships, ranging from 100 to 500 gross tons, in the Japanese Empire. Although fishing and cargo functions are often intertwined, a sizeable fraction of this sailing tonnage, over 300,000 gross, is undoubtedly engaged in coastal and inter-island cargo trade. Military importance today is reflected by the Japanese Government's offer of reward and profit to sailing merchantmen carrying China Sea contraband. Efforts are also being made to motorize sailing types not already fitted with auxiliary engines.

Sailing types included as freighters overlap with miscellaneous native craft, and the native craft chart should be referred to for complete coverage of this group. Easily distinguished from other vessels by its sails and graceful appearance, the sailing freighter is further designated by its rig. The ships on this page are all schooners.



MISCELLANEOUS FREIGHTERS

In small scale reconnaissance photographs recognition of the miscellaneous freighter is limited to its identification as a sailing type.

However, from closer view it is observed that each sailing vessel is a distinct ship, marked by an individual rig. Some of the more common types of sailing rig are listed:

- SCHOONER—Two or more masts, with fore and aft sails, and with headsails carried on a bowsprit and jib boom.
- KETCH—Two masts, with fore and aft sails, jigger mast rigged forward of the rudder.
- SLOOP—Single mast, with mainsail and with headsails carried on a bowsprit and jib boom.

BRIG-Two masts, square rig.



 \blacktriangle Two, three, and four-masted schooners \blacktriangledown

Ketch 🔺



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 \blacktriangle Schooners \checkmark





BRIGANTINE—Two masts, square rigged on the fore, and fore-and-aft rigged on the mainsail.

BARK—Three masts, square-rigged on the fore and main, and fore-and-aft rigged on the mizzen.

BARKENTINE—Three masts, square rigged on the fore, and fore-and-aft rigged on the main and mizzen.

YAWL—A rig similar to a sloop rig but with a small fore-and-aft sail set on a short jigger mast.

Ketch **V**



WOODEN SEA TRUCKS "Sugar Dog"

To offset Japan's tremendous loss of steel shipping, a program of wooden ship construction was inaugurated in 1943. This program, launched with wide publicity and invested by the Navy with an "A" priority, was scheduled to reach a near peak in 1944 of over one million gross tons per year. Available estimates place the tonnage actually delivered at far lower than the planned figure.

An acute shortage of steel necessitated the choice of wood as the basic material for this program—in the wooden ship metal is used only for nails, certain installations, and the propelling machinery. Japan's yard facilities for steel ship construction have been strained to their utmost, and a yard for wooden ships can be set up at almost any harbor supplied with timber. Wood is also more easily handled by untrained labor than steel. Cranes, slips, and shops can be built of material on hand and construction begun immediately. Indo-China, Java, Thailand are well supplied with teakwood; pine and fir are plentiful in Manchukuo, the Philippines, and South China; so the source of supply permits a wide geographic range for construction.

To speed production, the program was standardized into 5 designs of sea trucks, 500, 300, 250, 150, and 100 gross tons, respectively, with principal effort devoted to the three smaller types. An output of one boat per slip per month was expected by the Japanese. Lag in delivery of Diesel engines seems to have been the principal bottleneck in production thus far. Japan's dwindling stock of seasoned timber also seems to have been a delaying factor; ships built of green wood have been extremely difficult to repair. The enemy is known to have considered a proposal that one half of the existing dockyards be assigned to repair work alone.

Wooden vessels are intended to carry all the coastal cargoes of the Japanese Empire, with overseas traffic reserved exclusively for steel shipping. Coastal lading consists for the most part of food staples and raw materials for industry. Since the campaigns of Lae and Guadalcanal, Japan has also been forced to rely increasingly on wooden ships for supply of isolated garrisons. As a carrier, the sea truck is more adapted to transport of small packaged bulk, such as food or ammunition, than to individual weighty objects such as tanks or artillery. Their expendability is a prime advantage; the loss of any single ship is of far less consequence than the sinking of a large freighter. Coasters are very difficult to identify at sea, and in jungle areas, lend themselves to deceptive inshore camouflage. Their shallow draft enables navigation over reefs or shallow waters inaccessible to larger vessels. Worst tactical disadvantage is their slow speed (8 knots maximum) and limited endurance (about 10 days). Once spotted, wooden vessels are apparently an easy target for aircraft, easily set afire by machine gun strafing or light bombing; their defensive armament is slight.

Reconnaissance photograph showing wooden sea trucks (KAIJO TOR-AKKU), Simpson Harbor, RABAUL, November 1943.


"Sugar Dog" WOODEN SEA TRUCKS

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> There is a slight overlap in size range between the wooden and steel sea trucks as indicated in the tonnage/length chart (See page 63). Once the general length/ tonnage figures are determined for a sighting, detailed characteristics are available from the table of specifications listed below.

GROSS TONNAGE—100 to 300. Dead Weight Tonnage—64 to 380. Length—70' to 130' (water line). Beam—16' to 30' (extreme).

DRAFT (250 gross tonnage type)—10.2' (mean).

SPEED—6.5 to 10.5 knots (8 average), Diesel. 6 to 14.5 knots (9 average), steam.

MASTS—1 to 2. HATCHES—1. PROPULSION—Diesel or steam engine; may carry sail.





FUEL-Oil or coal.

CARGO CAPACITY-131 to 615 tons (300 average).

FUEL CAPACITY-14 tons (average), Diesel; 22 tons (average), steam.

FUEL CONSUMPTION —1.1 tons per day (average), Diesel; 8 tons (average), steam. RADIO—Some radio-equipped.

CREW—Complement of 200-ton type: 9 men, including an "authorized captain quartermaster," 4 seamen, and 4 workmen. Extra signal personnel when conditions warrant. ARMAMENT—Single or twin MG on bridge or forecastle. Some not armed,

or small fireams such as pistols, etc., carried.

ENDURANCE—12 days (estimated), Diesel; 3 days (estimated), steam.

CRUISING RANGE—About 2,200 nautical miles.

FREIGHT EQUIPMENT—The hatch is serviced by a hoist geared directly to a 25 hp. (250 gross tonnage motor. Lifting capacity of boom on forecastle deck is type) about 3 metric tons.

FUMITSUKI MARU, typical wooden sea truck, 115' over all, Diesel powered.



WOODEN SEA TRUCKS "Sugar Dog" RECOGNITION FEATURES

From the air the most salient characteristics of the wooden sea truck are: rounded stern, full-width bridge, length/beam ratio of about 4:1, single large cargo hatch, prominent bowsprit, rectangular boat rack projecting over the stern, and a wooden yoke which projects outboard across the bow. From the surface, recognition characteristics are the high bridge, clipper bow, counter stern, high freeboard, and sailing rig which connotes some of the "country" awkwardness of a junk. Notice that when sails are rigged, the sea truck will resemble an ordinary two-masted ketch.



These are two pre-war prototypes first seen during the China campaign.



Photo below shows launching of a typical sea truck.





Although a great many minor variations exist, the most prominent of these occur in the bridge, which may be $1, 1\frac{1}{2}$, or 2 decks, the mizzenmast which

may or may not be erected, and the length which ranges between 70' and 130' over all.



WOODEN SEA TRUCKS "Sugar Dog"

Sea truck "factory" at Panay, P. I. Other craft are native types, luggers, and barges.







These vessels have been produced in quantity during the war as the smallest type in the wooden ship building program, and now constitute a large factor in the local supply operations throughout the entire Far-Eastern combat area. For example, in Burma it was estimated that over 60 percent of the total operating tonnage in early 1944 was comprised of wooden vessels, 75 percent of which were 80' to 100' luggers. The following characteristics present a brief over-all description of the lugger type: LENGTH-Below 100' (o. a.). TONNAGE-Below 125 gross tons. SPEED-8 knots (max.).

SPEED—8 knots (max.). PROPULSION—Diesel, semi-Diesel or gasoline, with auxiliary sails. ARMAMENT—7.7 mm. MG on bridge.





WOODEN LUGGERS

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"Lugger" is an over-all nickname that has been applied to all wooden, cargo-carrying, powered craft under 100' (o. a.) in length. Military landing craft and native types are not included in this category.

Actually this arbitrary definition does not apply as universally as this, for three reasons. The first is that luggers are actually fishing vessels used for, and recently built primarily for, cargo-carrying purposes. For this reason, duplicate types will be found under "Fishing Vessels." The second discrepancy arises from the great overlap of wooden sea trucks and luggers between the 80' and 100' lengths. Thirdly, one type of lugger is used for Army military purposes as the Type "G" landing craft.

Therefore, in summary, "luggers" will be found in use for three different purposes—fishing, cargo carrying, and as landing craft.

The best solution to these problems lies in accurate recognition of all these craft as basically one type, which in itself is easily identified.

A flush deck, small cabin located aft, square stern, and a single demountable mast are the main recognition features. To differentiate the lugger from other small types the circumferential catwalk and inconspicuous smokestack are additional features to check. Photos on these pages show their appearance during normal and sneak supply operations.









100-ton, 90' (water line) Lugger-typical of the larger types with extended deckhouse.

90-ton, 85' (water line) Lugger-showing the variations existent in this type.







 75^\prime (water line), 65-ton (gross) Lugger—The 53^\prime Type "G" landing craft is similar.

60' (water line), 50-ton (gross) Lugger-Machine gun is a .303 Lewis type.





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A sizable percentage of the small craft observed in any Japanese harbor today consists of types performing cargo-lighterage duty. Individually these craft are of little importance, but collectively in their vast range of types, sizes, and duties they contribute materially to the Japanese war effort. In some forms they more nearly approach the function of Minor Combatant types and are included in that section of this publication. Other barges appear under Native Craft.

The barge category includes a large group of varying types of supply and cargo vessels which are generally without propulsion or "dumb," although a few may be driven by low-powered engines. They are usually pushed or towed, sometimes in considerable numbers, by a single powered vessel or tug. For towing purposes, the Japanese have utilized, in addition to tugs, a varied collection of powered launches, patrol craft, and miscellaneous motor vessels. In general, cargo barges are of wood construction, although steel is prevalent and concrete is sometimes used; capacities naturally vary but the largest seagoing scows may carry as much as 500 tons; armament is meager although 40-mm. fire has been encountered by Allied aircraft.

The cargo barge category is so large and so varied in appearance that no visual classifications can be assigned the numerous individual types. For purposes of this publication, however, they have been grouped on the basis of function.

1. FUEL BARGES—Four types of barges adapted or originally designed to transport oil in bulk are described in the following pages, some of them being standardized types which are being produced in quantity. In classifying these vessels as fuel-carrying units, one should not lose sight of their potentialities as carriers of bulk cargo—both in hold and on deck. None of the fuel barges is believed to be self-propelled.

2. SUBMERSIBLE CARRIERS—To answer the need for supplying isolated bases, the Japanese have developed unusual methods of underwater cargo service. A submarine of new design recently captured in the Philippines carried no torpedoes, was owned and operated by the Army, and was obviously designed and built as a cargo ship. Another development is a steel cargo tube which is towed underwater by submarine and released close in shore. The tube beaches itself by means of a short range compressed air drive.

3. The term LIGHTER may be applied to a diversified group of harbor craft used for loading and unloading cargo on large ships which cannot berth at dockside or quay. Such a group ranges from the self-propelled tug equipped with booms to the small flat-bottomed wooden boats such as Types "D" and "I" landing craft. Also included are utility barges assigned to such harbor duties as working with net or boom tenders or dredges; such specialized "tender barges" were photographed at Wake, Truk, and Luzon.

4. CARGO BARGE is a comprehensive term which covers the vast group of load-carrying nonpowered vessels excepting those selected for special functions such as fuel transport or lighterage duty. Appearance varies greatly, many of the types, however, being rectangular or "double-ended" in design; recent photographic coverage of Japan proper reveals extensive use of the "double-ended" type. Capacities of cargo barges vary up to several hundred tons; few are self-propelled, most being towed by tugs or similar vessels.

5. VEHICULAR BARGE FERRIES are generally pontoon types, appearing in Australasia, including Burma and China. Some of these, by appearance, belong in the Native Craft section but widespread use warrants their inclusion in the barge category.

CARGO BARGES

FUEL BARGES

With a growing shortage of tanker units, the Japanese have resorted to oil barges for the transport of bulk fuel and gasoline for wartime industrial and military needs. This use in a way parallels that of employing the sea trucks to augment larger cargo ship losses.

Four types of standard steel fuel barges have been reported by the combatant forces, each of which bears a marked similarity to the pre-war commercial types. They were assigned the designations "V," "W," "X," and "Y," and are reprinted as such in this manual. However, in the case of future new sightings, it is suggested that no new types are designated until their widespread employment as standard types is confirmed. Of the known types, no fuel barges are believed to be self-propelled or armed.

TYPE "V" LENGTH-90'. BEAM-36'. PROPULSION-Towed.

REMARKS—Pointed bow and stern are distinctive. Large hatch and boom forward, small hatch aft.







FUEL BARGES



HULL-This is a semisubmersible, flat-topped cylinder, with conical bow and stern sections welded in position. The entire assembly is of one-half inch steel plate. Stern stabilizing fins are riveted together.

LENGTH-104'.

ВЕАМ-16'.



PROPULSION-Towed.

REMARKS-This type carries cargo as well as fuel and is often seen towed in train with other barges.



- fuel barge, similar to those at right.
- ▼ Typical commercial type of double-ended ▼ Two 50' and 80' barges observed at the PESCADORES. These types may be used for either cargo or fuel transport.
- ▼ Large seagoing type in light condition.



CARGO TUBE

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This semisubmersible cargo tube was discovered at Guam. It is either towed or carried on deck by a mother submarine, released close to shore, where it travels in a semisubmerged state,

and beaches itself. Obvious use is to aid in the critical problem of supplying isolated Pacific outposts.

Hull— $\frac{3}{2}$ to $\frac{1}{2}$ steel cylindrical plating welded internally to circular angle frames.

Length-80' (o. a.).

DIAMETER-6'.

PROPULSION—Power unit located aft consists of 2 high pressure air flasks and a compressed air engine.

Screws-2.

ENDURANCE-6 miles (max., reported).

Capacity-60 to 80 fully equipped troops (est.) 1,400 cu. ft. (max. cargo).

CREW-4.

REMARKS—Tube is loaded through two 24'' diameter hatches, steered from an upright conn position.



UNGLASS SUPPLY SUBMARINE

Recent evidence reveals the existence of a new standard class of midget transport submarines built for and operated by the "Submarine Transport Battalion" of the Japanese Army. Designed to transport troops and supplies to forward areas, and to evacuate important military personnel, this submarine has been designated as Type "YU." It is constructed as a simplified double-hull, with cylindrical pressure hull, conical bow and stern sections, and box-like saddle tanks. Specifications are as follows:

DISPLACEMENT-290 tons (standard light, surfaced).

DIMENSIONS-137' x 13'.

- Speed—11.15 knots (maximum surfaced). 4 to 5 knots (submerged).
- ENDURANCE-2,711 miles or 10 days cruising, surfaced.

4 hours, submerged.

- CAPACITY-50 troops and 4 to 10 tons cargo or 40 to 50 tons cargo
- ARMAMENT—One 37-mm. (army mount), forward of conning tower.







◀ Large Manchurian flat barge for transporting oil (in holds) and bulk cargo (on deck). This type is representative of many of the barges operating for the large oil companies throughout Asia.

A popular Japanese type of Diesel-driven lighter, often seen in reconnaissance.

▲ A fleet of trunk-decked Shanghai tobacco carriers, readily adaptable to transporting bulk cargo.

A 90' Javanese Diesel lighter.

◀ Two sizes of Diesel-powered, open-hold lighters formerly employed in Sumatra.

Double-ended, Indo-Chinese, dumb river barge being towed by a passenger launch.



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CARGO LIGHTERS

◀ Several of a small Japanese barge fleet in tow. These ships are somewhat similar to the "lugger" type.

A fleet of native-built Malayan freight barges.

◀ The common steam-driven, combination tug-lighter often seen in industrial ports.

Junk-type lighter found in quantity throughout Japan and China.

▲ *Left*—Small, native-built cargo lighter.

◀ Normal pre-war type lugger serving as a lighter. Notice the collapsible mast and high bulwarks.

Combination steam-driven lighter and coastal cargo carrier. Notice the heavy-lift mast and cargo boom.







Large, wooden, rectangular scows like these are common to most Far-Eastern ports. They range up to 120' long and 300 tons in capacity; may be dumb or powered.

CARGO BARGES

Square-ended scows in Manila Harbor. The two at left have a 44-ton and 123-ton (gross) capacity.

Typical Japanese net- and boom-tending 70' barge photographed over Truk. Notice the fore-and-aft rollers.

Oblique and vertical views of some camouflaged wooden scows seen off Mindanao.

A variety of scows photographed over Panay in September 1944.

A large 150' x 36' barge used by the Japanese at Wake for banking sludge and coral in connection with a bucket dredge.



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▲ Large seagoing cargo barges used for transporting troops during the China campaign.

Another large barge type for transporting coal in the Netherland Indies.

One of the rare concrete barges built before the war at Hongkong.

◆ Part of a typical barge scene in any eastern port. Notice the variety of sizes and shapes in these locally built craft. Both photos show traffic on the Sumida River, Tokyo.









▲ Small Malayan cargo flats towed by an ocean- ▲ Native-type cargo barge with unusually fine lines, photographed during seagoing supply operations. ▲ going tug.

Philippine or e-carrying barges with ship-like hull \blacktriangledown lines.

▼ Poled river barge, JAVA.

 \blacksquare An open scow and two-hatch barge, SOERABAJA.





Japanese barges. Notice the hatch cover.

7

▲ Typical heavy construction used on native-built ▲ The smaller Japanese flat-bottom barges shown here were prototypes of the Type "D" landing craft.

More examples of the vast variety of cargo-barge types found in the Far East. Others serving different functions are included in the Passenger, Minor ▼ Combatant, and Native Craft sections of this manual. ▼





Typical houseboat rice barges in French Indo-China.

Deep, open-hold Indies barges capable of transporting several hundred tons of bulk cargo.

A Siamese version of the same type.

Type of small barge seen by the hundreds in reconnaissance over the lesser eastern ports.



CARGO BARGES

 \checkmark A 70' cargo lighter with large-capacity open hold. Other photos on this page illustrate the junk-type of barge with its characteristic crude construction.

The military use the Japanese have made of their vast fleet of wooden cargo barges is brought out by this captured table for loading a "large float" $(42' \times 10')$:

Number of troops loaded—70; horses—10; metric tons supply—15; field artillery supply vehicles—3; field artillery pieces—3; caissons—4; field artillery observation vehicles—3; 15 cm howitzers—2; transport vehicles—30; crew—4 to 5.



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CARGO BARGES



Most cargo barges are nonpowered, and rely mainly on towboats for all transport. However, during the war a great many of them have undoubtedly been fitted with machinery, such as the one above, or with sails for coastal transport. The aerial photo at right shows a group of non-propelled barges beached at Paramushiro.





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BARGE FERRIES



Right—Typical native-built car ferry with a capacity of six automobiles unloaded over one of four ramps. The ferry is pulled across the river by a submarine cable, with a gearing mechanism driven by a small gas engine. It is also connected to an overhead auxiliary cable for emergencies.

Left—The smaller type of native-built car ferry is typified by this two-car type built on a barge hull.

Right—This modern Borneo ferry is self-propelled and constructed of steel. Absence of landing ramps may indicate either that it is not used for vehicle traffic or that floating dock facilities are provided.

Left—The pontoon-type ferry, while tasically the same as those already shown, differs considerably in appearance. This crude, native-built type consists of a truss span supported by two small boats and is poled across the open water. An overhead cable serves as a guide and anchor against the current.

Right—This more modern all-steel version is pulled by cables connected to power units located on both banks.

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- ▲ Another cable-drawn type is this fully loaded, native-built pontoon for ferrying across the Labo River, Philippines. None of these ferries appear to employ the automobile's motive power as a means of propulsion.
- a steam launch across the Mekong River.
- ▲ This photo shows two pontoon barges towed by ▲ Some will have small thatched or tin-roofed structures built on the raft, as in this Mindanao Island ferry.

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From the air, pontoon ferries have an unmistakable appearance, since they are always joined together by catwalks and have a rectangular "floor," Normally they would also be equipped with loading ramps,



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In parts of Indo-China certain "bacs" (ferries) are made of specially built shallow barges which are either towed across streams by a cable or poled across. Ramps for landing are bolted in place at the dock.

This peculiar type of ferry is used to transport vehicles across the Mekong River in French Indo-China. The barge in the foreground, though mainly a loading pontoon, can also be towed across as an auxiliary.

This local adaptation in Sumatra is fabricated from discarded timber and fuel oil tanks. The log rafts are also used for ferrying animals and bulk goods.

BARGE FERRIES



A ferry operator pulls this log-raft type auto ferry across the stream by means of an overhead cable.

This crude Sumatra ferry consists of a matted floor spread on a wooden frame and supported by native canoes. It is poled across the water by a crew of four or more men.



FISHING VESSELS



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The Japanese fishing fleet is the largest and most vita of its kind if the world. It includes a vast variety of commercial and local types which completely cover the range from 1,000 GT down to native craft. The number of motor-driven fishing vessels alone is estimated at greater than 50,000. Since no distinct design type exists in the fishing vessel tonnage categories, the entire range has been arbitrarily separated into deep-sea, coastal, miscellaneous small fishing vessels, and whale-killer boats.

DEEP-SEA TRAWLERS AND REFRIGERATOR SHIPS

Considering the more distinct trawler types, there is a general division between older and newer design deep-sea craft. The newer design, commencing in 1930 with the KUSHIRO MARU, and exemplified more recently by the MINATO, is 300 gross tons or larger, 135 to 175 feet in length, Dieselpowered, and marked by a low stack further aft than on older designs. Refrigerator capacities range to 25 tons, and fish storage to 10,000 cubic feet. Older design (1920-30) trawlers of the deep-sea class are easily identified by a tall, coal-burner stack. This type, illustrated by HIMESHIMA MARU, is 200 to 300 gross tons, 100 to 130 feet long, is slower, and has a shorter radius than the Diesel-powered vessels.

As early as 1918 the Japanese began standardizing their trawler designs with plans for conversion. This forethought is borne out by the number of both deep-sea and coastal trawlers operating tooday as converted patrol craft, mine sweepers, and antisubmarine craft. These vessels have been seen with 3-inch main batteries and as many as five machine guns.

Many of the deep-sea trawlers incorporate the latest developments in refrigerator design, some having a capacity of 10,000 cubic feet. SURUGA MARU, a trawler of 990 gross tons, was alone capable of supplying a fleet unit of 14,000 personnel with perishable provisions. In addition to serving as provision ships, trawlers may be used for carrying other cargo in their holds or on deck, in the same manner as sea trucks and barges are used throughout the Pacific.

COASTAL TRAWLERS

Coastal trawlers in general include those fishing vessels under 150 gross tons, although some of the types included in this section run as high as 300 tons. They operate close to shore, either individually or in fleets, under the supervision of larger "mother ships" and sometimes function as "mother ships" themselves to smaller fishing boats. The coastal group consists of a variety of types, including fishing leaders or spotters, fishing guard craft, research or experimental craft, seiners, drifters, linets, crab tenders, motor Tish carriers, and a variety of very small motor-driven fishermen. No generalization can be made regarding their construction, since both steel and wooden hulls have been used either separately or in combinations. Diesel power has been adopted for the more modern vessels, but semi-Diesel types are also prevalent and auxiliary sails are used by most of the smaller boats when weather permits. The prefix "coastal" does not preclude this group's adaptation to wartime use, and coastal trawlers may be observed anywhere in the Pacific area as minesweepers, subchasers, or picket boats.

Generally, the main armament consists of a 25 or 57 mm. automatic weapon mounted on the forecastle, with light MG on the bridge or on the superstructure abaft the bridge.

MISCELLANEOUS FISHING VESSELS

These vessels comprise the largest number of motor-driven fishing craft. They are generally about 90 gross tons or under and are extremely varied in appearance.

They serve primarily as watcher boats and as such may be equipped with radio or other signaling device. When armed, a light machine gun and depth charges are fitted.

Small fishing vessels are used extensively as small cargo carriers and a great number of these have been reported and photographed throughout the South Pacific. Sometimes called "luggers," most of these are actually a fishingboat design. Obviously most of these vessels engage in fishing for Japanese island bases, in addition to serving as interisland cargo carriers and watcher boats.

WHALE-KILLER BOATS

Killer boats were designed to harpoon whales and tow them to their "mother ship" whaler for processing. These seaworthy vessels are constructed of steel and readily lend themselves to conversion as patrol, anti-submarine, and mine-sweeping craft.

In appearance, their high sheer forward and aft, low freeboard, tall bridge and stack, and one-deck superstructure from bridge to mainmast make these vessels a distinct type. In the newer types, bridge and stack are lower and further apart.

Whale killers range from 100 to 375 gross tons, from 90 to 140 feet in bp. length, usually carry a 3''/40 cal. and as many as six 7.7 and 13-mm. machine guns, as well as depth charges and mine-sweeping gear. They are also equipped with radio, direction finder, hydrophones, and degaussing cable.

FISHING VESSELS

300-1,000 GT DEEP-SEA TRAWLERS





W KUSHIRO MARU A



KUSHIRO MARU is typical of the older large type trawlers.

KUSHIRO MARU, KEINAN MARU, YUKI MARU

Built—1928. Length—135' (water line). Beam—24'. Tonnage—312 (gross).

MINATO MARU is a modern motor-driven trawler, typical of the type generally requisitioned by the Japanese Navy. Operating as an XAF, this ship, together with three other trawlers, supplied the entire Eleventh Air Fleet (17,000 troops) with monthly rations of 700 tons staples and 800 tons of fresh provisions.

BUILT-1934. Naval Status-XAF. Length-177' (water line). Beam-31'. Tonnage-664 (gross). Capacity-Partially refrigerated.

WINATO MARU



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ACCILIPEEP-SEA TRAWLERS 300-1,000 GT

WARTIME USE

As early as 1918 the Japanese Government instituted specifications regulating all civil and commercial trawler construction, in order to provide ships easily convertible to naval functions. This far-sighted program has made it possible to expand the naval fleet of gunboats, patrol craft, mine layers, and mine sweepers to a vast extent without interrupting the building program of other essential types.

For a complete picture of converted small craft fulfilling naval functions, separate lists are included in another section of this manual.

XPG (Gunboats), XPC (Subchasers)

Trawlers converted to either of these functions mount a twin 25-mm., or single 3''(or sometimes 4''.7) naval gun on the forecastle, several 7.7-mm. or 13.2-mm. machine guns on the bridge or stern, and depth-charge dropping gear on the fantail. All are equipped with searchlights, RDF, transmitting/ receiving radio equipment, and degaussing coils. This conversion generally corresponds to our own YP's.

XAF (Storeships)

Since Japan's supply of refrigerated cargo-carrying ships is quite limited, many trawlers have been pressed into service as provision carriers for supplying outlying bases.

XAM (Mine Sweepers)

As in the case of all other navies, the Japanese have converted a great many trawlers to mine-sweeping duties. It must be remembered that all fishing boats (as well as cargo carriers and other small craft) are in all probability serving the dual function of patrol and supply. As XAM's, these vessels are fitted with two bow sponsons for paravane gear, degaussing coils, racks of mine-sweeping floats, and at least one 3'' and several automatic machine guns. Searchlights, RDF, depth charges, hydrophones, and radio, are also standard features.

300-1,000 GT DEEP-SEA TRAWLERS

ORIGIN

In peacetime these were the mother ships of the large Japanese fishing fleet, operating with groups of smaller fishermen in all areas of the Pacific Ocean, including the Southern California-Mexico banks. Their main function was to carry provisions for this fleet, stow the catch in refrigerated holds, and to serve as fish transports.

RECOGNITION

All oceangoing trawlers follow one basic design with the greatest variations separating the old from the new types. Regardless of age, most large trawlers have a raised forecastle, plumb bow, two masts (mainmast abaft the stack), and a large superstructure extending aft of amidships. The stack is the main variable feature—tall, thin, and located immediately abaft the bridge on older types; or short, broad, and located farther aft on the newer types.

From the air, most large trawlers may be mistaken for engines-aft freighters. However, a glance at the hatch type will differentiate them, since all trawlers have a series of small rectangular hatches, rather than the one or two large openings. The cross-sectional view at the right illustrates the general design of a typical trawler.

CHARACTERISTICS

The tonnage/length chart shown at right was prepared from a variety of known trawler examples, and should provide a workable average for interpreting all trawler sightings. Additional characteristics applicable to this range of deep-sea trawlers follows:

GROSS TONNAGE RANGE-3	100 to Si
1,000.	P
LENGTH (bp)-135' to 176'.	\mathbf{F}_{1}
BEAM-24' to 31'.	R
DRAFT-11' to 16'.	N

- SPEED—10 to 13.5 knots.
 PROPULSION—Diesel.
 FUEL—Oil.
 RADIUS—Minimum, 2,000 miles.
 NHP—67 to 194.
- Note.—Although deep-sea trawlers cover the range from 300 to 1,000 gross tons, the numerically largest group falls between 300 and 650 gross tons.



GROSS TONNAGE -900 800 700 60.0 500 400 300 200 100 a 120 140 160 180 200 80 100
DEEP-SEA TRAWLERS 300-1,000 GT





▲ HISHUN MARU

A special trawler type built as a fishing industry survey vessel. Tonnage—318 (gross). Speed—13.5 knots.

YATSUSHIRO MARU, SAPPORO MARU, KIRAMI MARU, MAMIYA MARU, AZUCHI MARU—

The last two trawlers are operating as XAF

Completed-1930.

DIMENSIONS-145' (water line) x 24'.

TONNAGE-360 (gross).

This design typifies all newer deep-sea trawlers in appearance features.





300-1,000 GT DEEP-SEA TRAWLERS NGLASSIFIED



- ▲ OI MARU—Listed as an XAM. COMPLETED—1939. DIMENSIONS—164′ (water line) x 27′.
 - TONNAGE—498 (gross). A lugger is in the foreground.
- ▼ TOKATI MARU—Typical of the most modern types. COMPLETED—1941. TONNAGE—498 (gross).



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- ▲ TAIYO MARU, TENYO MARU No. 2—Latter is an XAF. COMPLETED—1925. TONNAGE—670 (gross). DIMENSIONS—176' (water line) x 31'.
- ▼ SENDAI MARU—Listed as an XAF. COMPLETED—1933. TONNAGE—473 (gross). DIMENSIONS—150' (water line) x 26'.







▲ SHUNKOTSU MARU—A government "Fishing Industry Inspection Ship."

Completed—1928. Tonnage—521 (gross). Dimensions—156' (water line) x 30' Speed—13 knots; 1,500 hp. x 13'.

▼ SHOAN MARU—Another "Fishing Industry Inspection Ship;" now an XPC. COMPLETED—1930. TONNAGE—417 (gross).

DIMENSIONS-151' (water line) x 27'.



W HAKUHO MARU

With three other small XAF's, it supplied the 8th Air Fleet (40,000 troops at RABAUL) with monthly rations of 1,400 tons staples, 1,400 tons perishable provisions. Completed—1922. Dimensions—130' (water line) x 25'. Tonnage—332 (gross).



200-300 GT STEAM TRAWLERS

All trawlers built prior to 1925 are of this type and general design. Slower speed and shorter range have influenced their naval assignment to mine sweeping, although a few are performing XAF and XPC duties.

From a recognition point of view, this type may bear a certain resemblance to the steel sea truck or powered tug-lighter. However, it can always be identified as a trawler by the characteristic long deckhouse. To differentiate steam trawlers from the newer Diesel types, look for the tall, thin stack placed immediately abaft the bridge. Other identifying features are the numerous high ventilators and the broken profile of the engine-room deckhouse.

In order to interpret a sighting, the tonnage/length chart preceding the "Trawlers" section should be studied. As an additional aid, the following data have been included to indicate the range within which all steam trawlers will occur:

TONNAGE—200 to 300 (gross). LENGTH—115' to 135' (water line). BEAM—22' to 25'. Speed—8 to 9½ knots.







HIMESHIMA MARU—Listed a an XAM.

TONNAGE-274 (gross).

DIMENSIONS-130' (water inter x 24'.





STEAM TRAWLERS 200-300 GT



▲ An unidentified armed mine-sweeping steam trawler. Notice the added bridge and poop structures.



▲ BOCHO MARU—An old type of flush-deck steam trawler.

HAKATA MARU No. 2, No. 3, No. 6, No. 7

Photo shows one of these XAM's during the China campaign. Notice the light bow mount and the row of mine-sweeping floats. Tonnage is 262 (gross).



TONNAGE—216 (gross). Dimensions—118' (water line) x 22'.



150-300 GT SMALL TRAWLERS

The vast majority of Japanese trawlers in into this category, under one of two headings—either fishing boats or special types.

The first group includes all those vessels which are designed to fish either singly or in groups, or to act as mother ships for those groups.

The second group takes in all Government and privately owned trawlers designed to perform the many specialized functions connected with the fishing industry. Examples of these are the "fishing spotters" or "leaders," which engage in the exploration and survey of fishing areas, the experimental fishermen, and the various training, salvage, and "guard" ships assigned to the fishery schools or flee's.

 KAMITAKA MARU—A former Fishery Institute Training Ship owned by the Department of Agriculture and Forestry. COMPLETED—1937.
TONNAGE—236 (gross).
DIMENSIONS—114' x 21' x 11'.
SPEED—11.5 knots; 450 hp.



The FUJI MARU and KAMITAKA MARU, hown below, are representative of this group.

All small trawlers considered in this category have the same general characteristics, regardless of function. These can be outlined as follows:

TONNAGE-150 to 300 (gross).

LENGTH-98' to 135' (water line).

BEAM-20' to 24'.

Speed-8 to 12 knots.

DRIVE—Diesel or steam-reciprocating engines; auxiliary sail often carried. CAPACITY—Refrigerated holds on special types.

FUJI MARU—A privately owned fishery spotter boat. Tonnage—213 (gross). Dimensions—124' x 23' x 10.6'. Speed—10 knots.



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IINCLASSIFIED

SMALL TRAWLERS 150-300 GT

NAVAL USE

XPC (Subchaser)

Ships in this category make up the great majority of the XPC's converted for harbor and coastal sub-hunting duties.

Although used as escorts for coastal convoys, they seem best suited for patrol duties around bases. A typical XPC conversion of this type appears in the photographs shown alongside. Its armament and equipment is reported as follows:

One57-mm. on forecastle, 4 light MG's on superstructure, 4 depth charges in two fantail racks, two-way radio, RDF, and type KE hydrophone equipment.

Others have been seen with only 2 light machine guns plus depth charges.

XAF

A great many of the "special" types of small trawlers, most of which were built with refrigerated holds, have been pressed into service as small provision supply ships. Others have merely been added to the cargo-carrying fleet as the necessity grew.

XAM

The older and slower types, as in the steam trawlers, are usually converted to mine-sweeping duties.

It must be remembered that Japan's economy still depends a great deal on the fishing industry. For this reason, a large percentage of the fishing fleet, and particularly this type, will still be engaged in its normal peacetime pursuits.

133 For a complete list of the ships in this category now engaged in naval duties, see the statistical section of this manual.



150-300 GT SMALL TRAWLERS

Generally speaking, this smallest type of trawler still maintains the identifying characteristics of the larger types, but in a compressed form.

The main appearance characteristics can be summarized as follows:

- -Superstructure extends aft from amidships, but stops at mainmast.
- -Deck may be flush or with slightly raised forecastle.
- -Stack is low and separated from bridge.
- -Bow may be plumb or clipper with bowsprit.
- -Circumferential catwalk for line fishing may be fitted.
- -Hatches are small and numerous.
- -From the air, beam/length ratio is high; hull sides are flat.



ONI 208-J-SUPPLEMENT 2



Division of Naval Intelligence







TAIAN MARU

An XAM built in 1930. TONNAGE-193 (gross). DIMENSIONS-120' (water line) x 19'.

FUSA MARU-

A typical "fishing fleet leader": training and experimental vessel.

TONNAGE-176 (gross). DIMENSIONS-105' (water line) x 22.4'. SPEED-12 knots. DRIVE-Diesel; 320 b. h. p.

Notice the larger-than-usual cabin accommodations.

◀ KOSHIZUMI MARU— Typical of the oldest trawler

types.

KOCHI MARU-

A fisheries leader built in 1938. TONNAGE-200 (gross). DIMENSIONS-102' x 22' 10.8'. SPEED-10 knots. DRIVE-Diesel; 430 b. h. p.

◀ SHOHO MARU-

A similar fisheries leader built in 1927. TONNAGE-176 (gross). LENGTH-109' (water line).

SHIRATORI MARU-

Modern fishing "spotter" with circumferential sponsoned catwalk. TONNAGE-269 (gross). DIMENSIONS-120' x 23.9' x 10.8'. SPEED-12 knots. HP.-450.



150-300 GT SMALL TRAWLERS



TERUKAZE MARU—A Government-operated Fisheries Guard Ship of 257 gross tons.

SOYO MARU—An "ocean investigating vessel" formerly operated by the Department of Agriculture and Forestry.





SOYO MARU

Completed—1939. Tonnage—202 (gross). Dimensions—112' x 21.2' x 12.3'. Speed—10 knots. HP.—202.



 \blacktriangle A typical small coastal trawler of 80 to 100 gross tons. Notice that it repeats most of the "large trawler" appearance characteristics.



▲ This bonito boat combines the "small trawler" appearance with some of the "two-masted schooner" features.



FISHING BOATS 30-150 GT

This category is a catch-all including all fishing vessels smaller than coastal trawlers but larger than the purely local native-built types.

Because of the endless variety of sizes and designs, this section is presented as a cross-sectional coverage, with emphasis on the two most popular large types—the small trawler and the bonito boat.

SMALL COASTAL TRAWLERS are merely miniature versions of the larger deep-sea types, with the same appearance characteristics. They also serve the same individual or group-shipping functions as the larger types, and are also often employed as fish transports.

BONITO BOATS are similar to the trawlers, but are fitted for line rather than net fishing. They are designed to fish independently for bonito or tuna, and to store and transport their catch in refrigerated holds.

MISCELLANEOUS TYPES

This mass of smaller fishing boats includes very small trawlers, drifters, crab catchers, the "lugger" type of line fisherman, and innumerable other small craft engaged in purely localized fishing in an offshore area or around a larger mother ship.

In general, this whole group of miscellaneous fishing types will fall into the following range of characteristics:

TONNAGE—30-150 (gross). LENGTH—65' to 100' (water line). BEAM—14' to 20' (hull). SPEED—Under 10 knots. DRIVE—Diesel or steam; auxiliary sail carried.

◀ Notice the "trawler" lines are repeated even in this smallest (34-ton) fishing launch type.

30–150 GT FISHING BOATS

WARTIME USE

XPC (Subchasers)

This group shares with the larger (150 to 300 gross tons) trawler type the bulk of the XPC functions. Within this group the most apparent conversions have been the larger bonito and seiner boat types, ranging from 90 to 150 gross tons. In most cases, masts and shrouds, and most fishing gear (except that useful in mine sweeping) have been removed, and machine gun positions added.

Some XPC's of this type have mounted a 57 mm. bow gun, up to four machine guns, and four depth charges on the fantail. Many have had a single lifeboat hung on davits forward of the bridge.

XAM (Mine Sweepers)

A great many of these craft have been requisitioned for harbor and river mine sweeping, paralleling our own AMc conversions from similar West Coast types.

XPP (Picket Boats)

This local function is almost entirely served by the smaller 30- to 50-ton fishermen, which carry on both the fishing and patrols at the same time. Equipment is usually a single machine gun, and a two-way radio, or visual signaling devices, and in some cases the simple KE hydrophone used on XPC's.

XAF (Storeship)

Only the larger trawler type with refrigerated holds would be useful for this purpose, although very few have actually been reported as such. However, for general cargo carrying, a great many of the 100-ton fishermen have been requisitioned as "luggers," and added to the new wooden shipbuilding program type derived from this same design.





▲ Bonito boats serving as XPC or XPP. Note that masts have been struck, sponson partially removed, and a 57 mm. mount, machine guns, and depth charges added. Ship at right is carrying fuel drums as deck cargo.



Lightly armed small trawlers, typical XAM, XAF conversions.



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FISHING BOATS 30-150 GT

RECOGNITION

There are three basic recognition groups within this category: (a) the small trawlers, (b) bonito boats, and (c) the miscellaneous smaller types. Each of these groups incorporates something of the basic "trawler" design.

The small trawlers and bonito boats are merely miniature versions of the larger deep-sea types, with minor differences separating the two. These differences are found in the bow (plumb on trawlers, raked with heavy bowsprit on bonitos), the length/beam ratio (bonito fishermen are very broad), and in the use or absence of circumferential deck sponsons (on bonitos only). Furthermore, bonito boats are fitted with the two-masted schooner rig, while trawlers apparently never use sail.

A third group, the drifters or purse seiners, combine features of both these types.

The smaller types can usually be recognized by their single mast (all trawling types have two masts) and wood construction. However, beyond this distinction, the variations and differences between types grow to such an extent that no other generalization can be made. Bridge, superstructure, masts, stack, even hull, follow no basic pattern; in fact some of these elements are often not included.

However, in this miscellaneous group, a distinct "trawler" type, the "lugger" type, and the motor-launch type can be recognized as separate designs. The other types merely combine features of these three designs.

30-150 GT FISHING BOATS



NANBO MARU

Small trawler-type fisheries training vessel. Tonnage—123 (gross). Dimensions—90' x 18.7' x 9.8'. Speed—9.6 knots. Hp.—200.

TOYO MARU No. 9

Small combination trawler-fish transport. Tonnage—72 (gross).

MATSUYAMA MARU

Steel trawler-type mother ship and fish transport. TONNAGE—110 (est. gross). LENGTH—100' (est.).

ROYO MARU

A small trawler type with characteristic stern "horns" for dragnet lines. TONNAGE—88 (gross). SPEED—11.5 knots.



SYONEI MARU

Another fish transport, identified by its characteristic cargo loading booms. TONNAGE—120 (gross). LENGTH—87' (water line).

TOWAN TARO MARU

Small modern Diesel-driven fish transport—One of five sister ships carrying 24 to 32 tons of fresh fish. TONNAGE—73 (gross). DIMENSIONS—80' x 17'. SPEED—9 knots.



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RESTRICT.

Typical bonito boat. Notice tapering hull, outboard sponsons, prominent bowsprit, and schooner rig.

Typical small trawler with sail rig for seining. Notice slab-sided hull, plumb bow, rounded bow and stern—all trawler characteristics.



HYUGA MARU A 70-ton, 71' bonito boat.

MIYAKO MARU

Bonito type "Deep Sea Training Ship." A 70-ton Diesel-driven type.

30-150 GT FISHING BOATS



SHOWA MARU No. 2 Same type, with sails rigged. TONNAGE—110 (gross). DIMENSIONS—80' x 19' x 7'.

Another small bonito boat.







SMALL FISHING LAUNCHES

Small 73-ton fish transport—SYONEI MART ▼ No. 2. Small Chinese trawler.

▼ 40' native-built fishing launch.





▼ 50' combination fishing launch and transport. ▼Typical Japanese local fishing boat; length about 40'.



▼ Same type engaged in line fishing for bonito.



 \blacksquare 95' wooden crab catcher and small boat tender.





▼ Typical small tug-type crab catcher.





▼ Crab-catching powered wooden launch.







SYONAN MARU No. 11

A Norwegian-type whale killer; now an XPC. TONNAGE—350 (gross). SPEED—14 knots (normal). DRIVE—Steam. NHP—105.

Dimensions—133' (water line) x 27' x 15'.

GANJITSU MARU

Typical of the many older types. TONNAGE—211 (gross). LENGTH-122'. Speed-10 knots (normal).

WHALE KILLERS

Whale killers are specially designed to patrol Arctic areas in search of whales, to harpoon them, and tow them back to the mother ship (which is essentially a floating factory).

For this duty, the whale killer has developed into a specialized design with great sea-keeping ability and particularly large engine power. Because of this, the normal whale killer can often tow as many as six or more whales at a time.

Although whale killers fit into the general tonnage/length curve for all fishing vessels, they form a completely distinct recognition design. In general, they will all fit into these limits:

Tonnage—100 to 400 (gross). Length—90' to 140'. Beam—18' to 27'. Speed—9.5 to 14 knots. DRIVE—Diesel or steam reciprocating. HP.—76 to 303 (normal).

FUMI MARU

One of the large modern types. Tonnage—360 (gross). Dimensions—140' (water line) x 25' x 13.1'. SPEED-14 knots (max.). DRIVE-Diesel. NHP-303.



WHALE KILLERS

Notice whale factory, harpoon gun, and catwalk.



Typical whale-killer design showing large machinery space and minimum cargo hold. This ship is the GANJITSU MARU.













WARTIME USE

Almost all whale killers that can be spared from essential fishing have been converted to XPC's and XAM's. As such, they've proven extremely valuable ships, since their great endurance, seaworthiness, speed, and towing power are equal or better than most naval vessels of comparable size.

The conversion follows the same general pattern seen on our own YP's and German Vorpostenboote. A typical example of this is shown at left.

This ship seems to be equipped for AA escort, mine sweeping, and antisubmarine duties. For this purpose, the deckhouse accommodations have been increased to house a crew of 30 to 40 officers and men, foremast moved abaft the bridge, and gun positions, depth-charge racks, and mine-sweeping gear added.

The armament on this ship is probably indicative of the ultimate assigned to all XPC's. It consists of a 3" on the forecastle and six 7.7-mm. or 13-mm. automatic machine guns. At least 8 depth charges can be ready on the stern launching racks (Y-guns have also been fitted), with a number of reloads stowed below. There are 26 mine-sweeping floats visible on the racks, indicating that this ship was used for both high-speed single-ship or low-speed twin-ship catenary sweeping.

Additional equipment reported carried on this type includes a transmitter/ receiver, RDF, hydrophonic gear, the normal visual signaling devices, and degaussing coils.



WHALE KILLERS



The two outboard vessels are KYO Class whale killers converted to serve as escort ships during the China campaign. Notice that the only apparent change from commercial appearance was the substitution of 3" guns for the forecastle harpoon. The ship in the center is a small engines-aft cargo type



fitted with a stern ramp for transporting and launching harbor defense nets. Although little is known about these XAN (net tender) conversions, it can be assumed that this ship is typical. A complete list of all known XAN's is included in another section.

One of the SHONAN MARU Class whale killers shelled and beached off Kwajalein. Visible armament is one 3" and one MG. This vessel was also equipped with searchlight, hydrophone, and radio direction finder gear atop bridge, and depth charge racks had been installed on the stern.









Although whale killers have a slight resemblance to trawlers, they can always be recognized by one of the following appearance

- -Bridge situated forward of amidships.
- -Hull with exaggerated bow and stern sheer, extremely low freeboard amidships.
- -Tall, broad funnel immediately abaft bridge.
- -Ice-breaker bow, cruiser stern.
- -Deck gun always mounted on the short forecastle.

Other apparent features, such as well-deck catwalk and mast arrangement, have been altered or removed during conversion to

WHALE KILLERS

Ships illustrated below are typical types; for a complete list of all known whale killers, see the Statistical Index.



Converted mine sweeper (XAM), carrying numerous floats and fitted with a fantail depthcharge platform.

TAMA MARU Class

Typical of the smaller modern type. TONNAGE—258 to 298 (gross). DIMENSIONS—122' (water line) x 22' x 12'. SPEED—13 knots. DRIVE—Reciprocating. HP.—770 to 800. HUMI MARU Class Showing peacetime rig. Tonnage—305 (gross). Length—130' (water line).



KYO MARU Class Converted sister ships are shown on preceding pages. Completed—1938. Length—154' (water line). Tonnage—385 (gross). Drive—Diesel.

The older whale killers are usually smaller (90' to 100' water line) and slower. They can always be recognized by their tall, thin stack, as shown in the examples below.





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The Japanese marine salvage industry had, in peacetime, the reputation for being the most efficient in the world, gained by a willingness to undertake and execute seemingly impossible salvage operations. This was furthered by the heavy Government subsidies to private enterprise, which enabled the entire industry to build up the finest salvage ships and equipment possible.

NAVAL USE

The most direct employment of these ships is obvious. However, there have been no reports concerning salvage activities beyond the fact that the bulk of these vessels are not in direct naval service. Despite this, it should be remembered that many of the larger modern salvage ships are admirably

SEIHA MARU

The largest and most modern unit. COMPLETED—1938. DIMENSIONS—195' x 35' x 16.9' (max.).

TONNAGE—984 (gross). Speed—13 knots. Drive—Reciprocating. NHP—200.



suited (in everything but speed) to serve as small combat-loaded cargo ships (AKA), tenders, and even as gunboats (XPG).

Most of the naval salvage vessels are comparatively unknown ships and may possibly be commercial units renamed for fleet operation. Among the naval units are several large freighters, which might be used as combination salvage vessel-tender-repair ships. As to armament, it is doubtful whether the majority will be fitted with anything heavier than 13-mm. and 25-mm. machine guns.

Very little is known about Japan's salvage fleet beyond a few of the popularized larger types shown on this and the following page. The other units, which cannot be identified as to appearance, are also included in a list on the next page.

YUSYO (YUSHO) MARU

Completed -1927. Dimensions-183' x 33'. Tonnage-807 (gross). SPEED—14.6 knots (max.). DRIVE—Reciprocating. NHP—147.



SALVAGE VESSELS



NASU MARU

Completed-1927. DIMENSIONS-175' x 29' x 12.7' (max.). TONNAGE-695 (gross).

Speed—13 knots (max.). DRIVE-Reciprocating. NHP-86.



MIHO (ex TAGONOURA) MARU

Completed-1924. DIMENSIONS-175' x 28' x 14.5' DRIVE-Reciprocating. (max.). TONNAGE-682 (gross).

SPEED-10 knots. NHP-70.

AKITSU MARU

Built in 1940; possibly as sistership to HOZU MARU. DIMENSIONS-164' x 27'. TONNAGE-610 (gross).



No appearance information is available on the following large types:

HOZU or HOSHIN MARU

Built in 1940. TONNAGE-613 (gross).

SHINI MARU

Built in 1899. TONNAGE-584 (gross).

KAMIKAZE MARU No. 7

TONNAGE-208 (gross).

Speed-11 knots. FUEL CAPACITY-236 tons.

SPEED-8 knots. FUEL CAPACITY-97 tons.

Three others, designated KYUJO, "Rescue or Salvage" vessels, are the 152 KAIGEN MARI 1814 gross tons), HAKUZAN MARU (174 gross tons), and the MISHIMA MARU (106 gross tons).





NAVAL VESSELS

All of these vessels are carried on the regular Navy lists as salvage vessels, in addition to the large converted freighters shown on the following page. One report states that average complement for each of these is 18 officers and men, probably in addition to the merchant crew.



ARS 2-YODOHASHI

DIMENSIONS-159' (water line) x 27.7' x 12.5' (max.), TONNAGE-800 (displ.), Speed-11 knots, Hp.-720.



 $\begin{array}{l} \label{eq:completed-1905.} \text{Completed-1905.} \\ \text{Dimensions-182'} \quad (\text{water line}) \ \text{x} \\ 30.2' \ \text{x} \ 11.7' \ (\text{max.}). \\ \text{Tonnage-1,000} \ (\text{displ.}). \end{array}$

SALVAGE VESSELS

SFEED-12.5 knots (des.). DRIVE-Reciprocating. Hr.-1,200. Photo was taken over Rabaul on February 11, 1943.



ARS 3—SARUHASHI

DIMENSIONS-140' (water line) x 26.6' x 10.6' (max.) . Tonnage-590 (displ.), Speed-13.1 knots. Hp.-830.



SALVAGE VESSELS INCLASSIFIED

Except for XARS 2, 3, these remaining savage vessels listed as naval units cannot be identified as to appearance. Notice that most of the conversions are large freighter types.

		Dimensions	Tonnage	Speed	Fuel	Completed
ARS 4	SHIRAGANE	133' (w. l.) x 25.1' x 8.3'	400 (displ.)	10.5	Coal	
XARS 2	KASAGI MARU	325' (w, l,) x 46' x 21'	3,140 (gr.)	15	Coal	1925-28
XARS 3	YAMABIKO MARU	460' (o. a.) x 59' x 27'	6.798 (gr.)	17,5	Oil	1937
XARS 4	HAKKAI MARU	309' (w. l.) x 45' x 20'	2,921 (gr.)	15	Coal	1940
XARS 5	ESA MARU	No data.				
XARS 6	HARUTA MARU	262' (w. l.) x 40' x 16'	1,515 (gr.)	10 (cruis.)	Coal	1925 (ex HALLDOR)
XARS 7	YUSHIO MARU	185.3' (w. l.) x 33' x 13.6'	807 (gr.)	13	Coal	1927

SEAGOING TUGS NAVAL USE

No tug category is included in any of the official Japanese naval lists, indicating either that commercial vessels are requisitioned whenever necessary (as in the case of their transports), or that these vessels serve dual functions, such as mine sweeping, and are listed as such.

In either case, it is known that Japanese tugs have been utilized for net tending, mine sweeping, patrol, and even transport, as indicated by one report describing the use of a seagoing tug to transport 200 troops to an advance sector.

The only naval vessel identified specifically as a tug is the NAGAURA, shown in the photo at right.

COMPLETED—1939. TONNAGE—800 (displ.). DIMENSIONS—165' x 27' x 10'. SPEED—10 knots (max.). DRIVE—Reciprocating. HP.—1,000 (approx.). CREW—57. ARMAMENT—1 twin, 1 single 13 mm.







INCLASSIFICU

SEAGOING TUGS

The already large fleet of Japanese seagoing tugs was greatly increased by the seizure of most of the Allied Far-Eastern utility vessels. For this reason some of these vessels, known to be in Japanese hands, are included in the typical, cross-sectional coverage presented in this section. The Japanese themselves classify their tugs into the following functional categories: EISEN (tugboats), EIRYO (tug, "travel"), EIKA (tug, "cargo"), EIKO (tug, "alternate"), and EISAI (tug, "ice breaker"), which gives an indication of their employment but not their characteristics, since no differences in size or capabilities seem to follow with this classification.

However, unless some of the above types are of a completely different design, all Japanese tugs will fall into the following range of characteristics:

TONNAGE—Average, 100 to 230 (gross); maximum, 450 (gross).

LENGTH-Average, 75' to 110'; maximum, 150'.

Speed—9 to 11 knots (average maximum).

DRIVE-Usually reciprocating; newer may have Diesels.

SEAGOING TUGS

This group includes all tugs smaller than salvage vessels and used primarily in deep-sea duties. Only a few exceptions exceed our ATA's in size and performance.

SUWA MARU, SHIRATAKA MARU-

Typical of the smallest seagoing type. COMPLETED—1923. DIMENSIONS—96' (o. a.) x 22'. TONNAGE—165 (gross). DRIVE—Reciprocating. NHP—72.

SEAGOING TUGS



CHOBO MARU

A modern tug type of 150 gross tons which was built for Yangtze River service. Paired kingposts, extended deckhouse, and wooden hull are unusual features for tugs of this size.



ST. SAMPSON

One of a class of British commercial tugs seized by the Japanese at Shanghai. This ship is 450 gross tons and is 135' over all. The seagoing tug lines of this ship are obvious—high forecastle, short superstructure, and long, clear deck aft.

KRAUS

One of the N. E. I. commercial tugs seized by the Japs. This ship is typical in characteristics and appearance for the many smaller types of tugs approximately 100' in length. Dimensions are $112' \ge 25'$; tonnage, 290 (gross).

YIN PING

Chinese tug built in 1914. Dimensions are $105' \ge 22'$, tonnage, 191 (gross). This ship is typical of the older tug types, with a small superstructure located farther aft than on the modern types.



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Harbor tugs cover the entire range of sizes from the seagoing type down to the small motor tow launch. In design, they are essentially reduced versions of the seagoing tug with decreased engine capacity and less seaworthiness. In function they perform multiple duties, including towing, serving as short-run transports or cargo carriers, fire protection, lighthouse and buoy

UNCLASSIFIED HARBOR TUGS

tending, pilot boats, etc. The Japanese terms of "tugboat," "tug, travel," and "tug, cargo," undoubtedly apply to this category.

As naval vessels they could perform little more than their normal duties, with the additional function of harbor or river mine sweeping and net tending. Typical examples of harbor types are shown below and on the following pages.

SHINRYU and NANSHIN MARU

These sister ships were considered the "most powerful" tugs in the Far East at the time they were built (1927). Although customs tugs, they are prototypes of all the later large steel harbor tugs.

DIMENSIONS-91' x 26' x 9.7' (max.). Tonnage-227 (gross). Speed-11.4 knots. Drive-2 Diesels; SHP, 2,570.

SAKURA MARU

A coal-fired tug built in 1939. Notice the difference in tonnage between this and the SHINRYU, although size is equal.

DIMENSIONS—90' x 22'. Tonnage—162 (gross). Propulsion—Reciprocating.



HARBOR TUGS



SUMIYOSI MARU

Tonnage-152 (gross). Dimensions-88' x 23'.



NUNOBIKI MARU No. 2

Illustrates the medium-sized steel harbor tug. Notice that in basic appearance it still resembles the large oceangoing type. DIMENSIONS-80' x 26'. Tonnage-119 (gross). Drive-Reciprocating.

ISOKO MARU

A modern wooden-hull tug; fairly representative of the smallest type. Tugs below this size are grouped under Motor Tow Launches. Length-70'. Tonnage-50 (gross). Drive-Diesel; 150 hp.









Three ex-British tugs ranging from 250 to 165 gross tons. Notice that appearance remains essentially the same in these modern types.





A modern 86' tug built for the Japanese Government. This vessel incorporates the Voth-Schneider propeller drive.

Most of the older harbor tugs seen in Far-Eastern ports will resemble these ships. Notice that although primarily towboats, they are also fitted as small passenger steamers.





This category includes all powered harbor vessels smaller than harbor tugs, regardless of type.

It includes the thousands of small vessels, typical the world over, which can best be classified as water-going taxis or trucks. They are used as pilot boats, lighthouse and buoy tenders, company launches, customs and harbor protection boats, small excursion steamers, ferries, towboats, and almost every other commercial function in a port. Most of them will fit into the following range of characteristics:

DIMENSIONS-30' to 80' (o. a.). TONNAGE-25 plus (gross). CONSTRUCTION-Wood or steel. SPEED-Under 8 knots. PROPULSION-Usually reciprocating engines, although smaller types may be Diesel- or gasoline-driven.

CREW-2 to 6.

In general, these craft resemble the small harbor tugs, although they usually have a smaller superstructure located amidships. Since a good many are Diesel- or gasoline-powered, some do not have stacks. Almost all have no masts.

NAVAL USE

Their primary use would be in base and yard duties, paralleling their commercial functions. However, they might be used as net and controlled-mine tenders, harbor mine sweepers, air-sea rescue craft, and as river transports.





Notice the similarity in design between the tow launches and the river steamer (background).



A typical locally built, gas-powered combination houseboat-work launch, used to tow junks, barges, etc. $\mathbf{\nabla}$



MOTOR TOW LAUNCHES CLASSIFIED



A Pilot boats comprise an important group in the Motor Launch category. They range from the small 45' type to larger tug-like craft. All are equipped for towing.

The small tugs included in this group may vary between the 25' and the 65' types illustrated. Their stubby appearance and heavy construction still distinguish them as tugs.

At right are typical tow launches as seen from the air. Note the characteristic tall stack and low, extended deckhouse.

The following types of powered small harbor craft are covered elsewhere in this manual—speedboats. under Landing Craft; powered barges, under Barges; small fishermen, under Fishing Vessels.





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These specialized utility vessels are included in this manual for photointerpretation purposes, since all types of dredges, cranes, and other miscellaneous harbor navigation craft have been seen in increasing numbers as the war moves closer to Japan.

The most conspicuous of these is the dredge, whose function is to remove subaqueous earth formation in order that the turning, anchoring, or approaching channels in a harbor can be kept clear. The "dredge" is classified as

DREDGES

follows-grapple bucket, dipper bucket, ladder bucket, and suction or pump hydraulic. The bucket dredges either carry their spoil aboard in selfcontained hoppers or deposit it onto hopper barges, while the hydraulic dredge usually discharges her spoil via floating discharge pipes. This spoil is often used to supply airfields under construction with earth fill. Another function for which a dredge may be used is to raise sunken ships. A few of the self-propelled dredges are seaworthy.



AREA-Japan, Ube Harbor; also seen in Inland Sea.

DREDGING CAPACITY-342 cu. vd. per hour. 163 LENGTH-128'.

ВЕАМ-38'.
DREDGES





CHIEN SHE is a suction drag pump, self-propelled, seagoing dredge built for servicing the Yangtze River. Since Japanese seizure, this ship may have been converted to cargo carrying, as the large continuous hold is advantageous for bulk military cargoes. As a dredge, there were two means of discharging mud the bottom may be opened and the silt dropped, or it may be flushed out from the sides. A mile-long cut would yield 4,000 tons of mud and water.

CARGO CAPACITY-4,000 tons mud, 350 tons coal, 150 tons fresh water.

OUTPUT-30,000 tons per 10 hours, 25,000 cu. yd. daily. Capable of shifting 5,000,000 tons of silt annually.



TONNAGE—4,699 (gross). LENGTH—360' (o. a.), BEAM—60'. DRAFT—18' (loaded). SPEED—10¼ knots (normal cruising). ENGINES—Reciprocating. NHP—748.

4 LI LIANG was the tender for CHIEN SHE (above); is now probably used as cargo transport.

Length-150' (o. a.). Beam-30'. DRAFT—10' (loaded). ENGINES—Reciprocating.





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▼ TAISHI MARU is a 750-hp. electric, hydraulic, suction-pump dredge. Teeth of the cutter are in the stern view. Spuds for anchoring can be seen at the bow of the **SHOHATSU MARU**, a hydraulic, suction-pump dredge. ◀ (1) CAMPBELL, (2) OSWALD, and (3) SAMUELSON, hydraulic, suctionpump dredges, were mistaken for salvage vessels when first photographed in sorties over Rangoon. (a) Indicates cranes for adjusting the suction pipes, (b) indicates spoil being discharged from port side. Only SAMUEL-SON is equipped with self-contained hopper and pipe line. CAMPBELL, OSWALD, and sister ship LEES are nonhopper types and discharge spoil over the side. All are 205' to 213' (o. a.).

◀ Surface view of a hydraulic, suction-pump dredge. Notice the floating discharge pipe which carries the spoil ashore.

\checkmark SAIKO MARU, a hydraulic, suction-pump, self-propelled, self-contained hopper dredge which resembles a cargo ship except for the location of the stack (forward of amidships).

Dredging Capacity-200 tons daily. Dredging Depth-18'. Tonnage-280 (gross).

LENGTH-131'. BEAM-26'. SPEED-7.2 knots (cruising).





UREDGES ASSIFIED

KYOSHO MARU is a ladderbucket, self-propelled dredge used at the Shimonoseki Engineering Station, Japan.

Dredging Capacity—600 cu. meters hourly. Dredging Depth—39'. Tonnage—1,000 (gross). Length—210'. Beam—42.' Speed—10 knots (normal cruising).



GOROTA MARU, a typical dipper-bucket dredge, "digs" like the familiar steam ▲ shovel. Note the scow receiving her discharged spoil. SHOVEL CAPACITY—4½ cu. yds.

British dipper-bucket dredge operating in Shanghai, China, 1941, is shown depositing sludge on shore.







OWADA MARU is a self-propelled, self-contained hopper, and probably a seagoing, grapple-bucket dredge.

This grapple-bucket dredge is a derrick mounted on a float and swings a grab bucket. Her other functions are to operate the bucket, control the position and local movement of the dredge itself, and to handle the scows. \checkmark

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Reconnaissance photograph of a dipper-bucket dredge at work off the coast of Saipan, 15 June 1944. \blacksquare

Mud plows apparently are used to open channels of navigation by means of agitating it into suspension. This N. E. I. plow cuts channels about 16' wide. \checkmark





For salvage operations, Japan has built a variety of floating crane types varying from the ship-borne unit to the locally constructed wood pile driver. Only a cross-sectional coverage of these types is illustrated here. The most common type seen in coastal and inshore waters is the dumb or powered barge fitted with anything from a crude native-built shearlegs or tripod mast to a large slewing type crane.

This twin-funnel, self-propelled type is one of the largest floating cranes ever built. Over-all dimensions of the steel portion are $270' \ge 91' \ge 10'$; the crane is 60' high to the hinge, 240' over all with jib raised. Two 50-ton and one 350-ton blocks are fitted.

This specially built 2,000-ton Japanese craneship (name unknown) was first seen at Shanghai in 1937. It was used to raise sunken blockships, and has now probably been converted to merchant use.

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FLOATING CRANES

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▲ Above are two extreme examples of the slewing-type cranes.

 \checkmark A large slewing crane and a 50-ton, nonslewing floating crane. Dimensions of the latter's self-propelled barge are 104' x 38'; height of crane is 48' above water line.







FLOATING CRANES

A typical native-built, pile-driving shearlegs.

Two examples of the smaller type of self-propelled, nonslewing crane.

Modern type of self-propelled shearlegs salvaging a Chinese PT in Shanghai, 1937. \blacksquare



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INCLASSIFIED

Included here are some examples of the vast variety of utility vessels (other than tow launches) which perform the many miscellaneous harbor functions. The majority of these seem to be vessels converted from other designs, or and wharf pr

specially built types. No two of them, although performing the same

function, will necessarily be alike in appearance. Included as "miscellaneous functions" are rescue work, tending of navigational aids, harbor and wharf protection, postal carrying, water carrying, etc.



The two vessels shown above are rescue launches for harbor and coastal accidents. They are equipped with rope-casting gun and lifesaving gear, range up to about 40 gross tons, are 65' in length, and have a maximum speed of about 12 knots.

A British boom tender operating in the entrance to Hongkong Harbor.

MISCELLANEOUS UTILITY VESSELS

A number of minor naval auxiliaries such as these were captured by the Japanese. Left to right are: A customs buoy tender designed for Yangtze River duty, a modern 100' postal ship, similar to the tow-launch design, an ex-Chinese lightship, typical of many Far-Eastern types.



ONI 208-J Supplement 2 • RESTRICT. Division of Naval Intelligence UNCLASSIFIED NATIVE CRAFT

Less noteworthy from a military standpoint than other small craft types, native craft are nevertheless one of the most interesting groups for study. There are more native craft in operation than any other type in registry, and as the Japanese Navy is brought closer to annihilation, every unit at its disposal, regardless of size, may be employed in defense. On numerous occasions our patrols have contacted innocent appearing sailing vessels which on closer inspection were found to be radio equipped for guard duty or loaded with contraband of oil drums or other military cargo. Many others have acted as anti-submarine decoys and suicide craft. Further significance is given by the Japanese Government's attempts to install small engines in Chinese junks, supplementing the mass production wooden ship program. It should also be remembered that in the China and Burma theaters a large percentage of inland passenger and cargo traffic is conducted by means of native barges, ferries, and sampans.

Native craft may be very generally classified as dugout, canoe, raft, or sailing types, with a maximum size of 100 gross tons. However, such a collection is less standardized than any other group, and arbitrary definition of types is impossible. Therefore, native craft are presented by their representative geographical provinces. There is a certain amount of overlapping of types between areas, and there are undoubtedly native vessels not covered in this text; but these pages will furnish a cross section of native craft *typical* of the following areas:

1. Japan proper.

2. China.

3. Burma, Thailand, Indo-China.

4. Malay Peninsula, Sumatra.

5. East Indies, including Java, Borneo, and New Guinea.

in and

6. Philippine Islands.

JAPANESE NATIVE CRAFT

At least 15,000 sailing vessels of 100 tons and less size operate under Japanese registry, and though many of these vessels are discussed primarily as fishing craft practically all this total belongs in the native craft group. Most Japanese native craft will be observed performing harbor or river duty, but in outlying coastal areas these vessels have been noted as sentry or watcher boats, and many of the native sailing types are capable of navigating the Inland Sea or Korean Strait.

Native influence is noticeable in the cargo-barge section, since the sampan is the predecessor for practically all river and harbor barges seen in Japan today. The Japanese sampan is built with long raking stem, vertical square stern, and broad flat keel of great thickness. Sailing sampans are rigged with one, two, or three masts and square sails, and a large number are now fitted with motor and screw propulsion. Smaller craft are propelled by a single scull rigged out on the port side near the stern, with more sculls being used on both sides as the dimensions increase.

Influence of native design is also marked in the hull shapes of the modern sea truck cargo types, many of which retain the bowsprit, high masts, and overhanging stern of earlier sailing craft.

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JAPAN-SAILING SHIPS

USE-Fishing, interisland trade, cargo carrying.

- DESCRIPTION—Schooner or junk rigged with up to five sails on two or more masts. Deckhouse is usually aft; most have bowsprit and overhanging stern.
- $\begin{array}{c} {\rm T}_{\rm ONNAGE} {\rm -\!-\!Most} \mbox{ are 20 to 100 tons; some range} \\ {\rm up to 500 tons.} \end{array}$
- PROPULSION—Only larger types are fitted with auxiliary motors.





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Use-Localized cargo and passenger transport. DESCRIPTION-Raking pointed bow, square stern. Sailing types may fit up to three masts and square sails. SIZE—Up to 40' max. length.



SAMPANS-JAPAN









These craft will be seen in almost all Japanese rivers, harbors, and coastal areas.





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NATIVE HOUSEBOATS, Etc.

USE—Houseboats, pleasure craft, ferries, etc. DESCRIPTION—Miscellaneous sampan or barge hulls with deckhouse erected. Range in sizes up to 100' long.

PROPULSION-Most are poled or sculled; some motor driven.

DUGOUTS-JAPAN

Use-Fishing, utility, coast watching.

DESCRIPTION—Hollowed, shaped logs with or without outrigger. Size ranges up to 30' (o. a.).

REMARKS- Seen in quantity in Micronesia and Melanesia; less around Japan.





CHINA-JUNKS UNCLASSIFIED

These ships are still the most important native type found on the China Coast. In spite of many local variations, they can all be recognized by their heavy wooden hulls, high poop, and large lugsails (up to 5 in number). Junks can be divided by function and size into trading junks, fishing junks, and river junks.

Oceangoing trading junks range up to 200' long; are often fitted with auxiliary charcoal, gas, or Diesel engines.



Fishing junks, although seagoing, are usually smaller than the trading types, and range up to 90' over all. They perform the functions of trawlers, purse seiners, and line-fishermen.

These photos typify the Hongkong types.





JUNKS-CHINA

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Combination fishing-trading junks are typified by these Amoy types. They range up to 70' over all and 150 gross tons. Some have made trans-Pacific crossings, attesting to their seaworthiness.

It has been estimated that a 70' junk carries 47.5 tons payload; an 80', 70 tons; 90', 108 tons; 100', 156 tons; and a 110footer, 220 tons.



MILASSIFILU

These PECHILI types represent the larger seagoing trading junks; range from 140' to 180' over all, 20' to 30' in beam, and up to 400 gross tons. Normal crews consist of 20 to 30 men. These junks have been extensively used for military transport all along the China Coast.



CHINA-JUNKS



Other types of specialized trading junks are the lumber carriers called the Foochow pole junks (above), and the Chusan Archipelago type (below).



The Foochow type ranges from 120' to 180' over all, and up to 400 gross tons, while the smaller Chusan group (below) is 50' to 70', with a tonnage up to 120 gross. Both types are seen in quantity along the China Coast.







Typical of the smaller types is this Yangtze River junk used to transport passengers and cotton bales. Lengths vary from 40' to 60'.

Other typical types, in clockwise order, are—common Yangtze River junks, small harbor type; and (below) a large trading junk.





CHINA-SAMPANS

The word "sampan" is used very broadly in the Orient to denote any small wooden boat or skiff. In China the sampan is generally a small utility boat used in sheltered waters for fishing and transport of cargo and passengers. Like the Japanese type, the sampan hull is wedge-shaped, with a wide beam-to-length ratio. It differs in its transom bow, raking stern, and absence of a keel. The sampan is normally sculled from the stern, although some types are rigged with a single mast and battened lugsail; and occasionally powered sampans will be seen. However, most small powered sampans are actually launches, and should not be confused with this native type. Normal sampans run between 10' to 30' long, although a few exceptions are as large as 60'.





Japanese powered steel sampan used in the China campaign.



Typical 20' river sampan showing stern horns.





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Chinese Army Engineers (above) and Japanese Marines (below) both used the sampan type as landing craft during the China campaign.



A houseboat built on a sampan hull.

The larger single-sail type. ▶







BURMA, THAILAND, FRENCH INDO-CHINA Native Craft CARTER CONTINUE



SANDOWAY TYPE—A two-masted cutter with forward hold and after cabin, used in coastal trading from Akyab to Bassein. Length varies from 50' to 60'; tonnage and cargo capacity from 50 to 70. GAY-BAO, an Indo-Chinese trading coaster used around Annam. These double-enders with fore-and-aft rig vary from 40' to 70' in length.

MERGUI type schooner or junk-rigged trader for the Tenasserim Coast. These vary from 60' to 80' in length, 35 to 60 tons, and have a crew of 10.

TAVOY schooner type also trading along the Tenasserim Coast. These carry auxiliary power and range from 100' to 120' in length, 130 to 200 tons, and carry a crew of 11 to 13. The HYLAM junk is a coastal trading type seen in the Gulf of Siam and the Annam Coast. Length is around 90' over all; crew approximately 20. GAY-YOO is a dragnet fishing type, 45' to 50' over all, often seen in the Bay of Tourance area. A small square sail is occasionally added to the boomed lugsails.



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The LAUNG-GO is an Irrawaddy River type of 50' to 75' and 20 to 30 tons. An entire family usually lives on the boat.

The LAUNG-ZAT is a larger Irrawaddy type used to transport bulk cargo. *

This is the typical native cargo-lighter seen in almost every port. Length varies from 70' to 90', tonnage from 100 to 250 (gross), and crew is usually 6.

BURMA, THAILAND, FRENCH INDO-CHINA Native Craft

The Burmese river PADDY-GIG's carry the majority of bulk paddy from fields to mill. They range from 60' to 80' in length; have a crew up to 8.

An example of the miscellaneous junk conversions. This one is now an Indo-Chinese pleasure boat. KISTIE's occur in Burma in the Naaf-Cheduba area, and are used for paddy transport. Hull is a built-up dugout type, 35' to 40' long, with a capacity up to 20 tons and a crew of 20 oarsmen.



BURMA, THAILAND, AND FRENCH INDO-CHINA Native Craft

This page illustrates a rough cross section of the miscellaneous types, sizes, and local variations encountered in Far-Eastern native craft. The majority of these are harbor or river craft engaged in local trade and fishing.







The TONGKANG is a 90' to 100' timbercarrying type with a ketch rig of 3 headsails and loosely footed mainsails. The TRENGGANU or PRAU BERAR is a Malayan trader with two masts raking forward and Chinese lugsails. Length averages approximately 80' over all. Chinese trading junks are also popularly used along the Malay Coast and in Singapore. They average around 85' in over-all length; are manned by a crew of 15.

Typical large native lighters and Chinese sampans are also abundant in this area. The TWAKOW is a 50' to 60' cargo lighter peculiar to Southern Malaya.



NETHERLANDS EAST INDIES Native Craft

In this area the diversification of native craft types and designs reaches a maximum, since almost every local tribe and village has its own individual type of fishing boat and barge. These are all covered by the generalized term "prau"



or "prahu." which means any, East Indian small boat. Since complete coverage is impractical, these illustrations are selected merely to show a cross-sectional view of all N. E. I. native shipping.

The LAMBO sloop is a typical small (30' to 45') coastal trader.

◀ Trading schooners are usually 80' to 120' long, have 2 or 3 masts, and are fitted with auxiliary engines. These can be found from Singapore to New Guinea.

◀ The Modoera PRAU is typical of the smaller (40' to 50') schooner-rigged trading types. Notice the heavy modified triangular sail in upright and secured position.





NCLASSIFIE^{Native Craft NETHERLANDS EAST INDIES}

The craft illustrated on this page are typical N. E. I. sailing barges which carry on most of the inland-to-port river trade. Most are between 50' and 70' over all, are beamy, shallow-draft craft with a long spritsail. Steering is done by rudder or quarter paddles.

NETHERLANDS EAST INDIES Native Craft

 \blacktriangledown Native cargo barges and two types of sampans.



The native canoe, whether plank-built or dugout, is the most common local fishing and general utility craft in the N. E. I. Their seaworthiness is limited to inshore waters, however. They may



- ▲ Dugout type, locally called MAYANG.
- ▼ Celebes plank-built type capable of transporting 30 passengers.



be equipped with single or double outriggers and a portable bamboo mast and matted sail. The basic difference between these types is apparent in their names.





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There are well over 200 sailing vessels registered in the P. I., most of which engage in inter-island trade or fishing. The majority of these run from 10 to 40 tons, although a few range up to 70' long and 100 gross tons. Their appearance is fairly standard with two masts forward, deckhouse aft.

◀ The BATEL is a 40' to 50', 20 to 40 ton dugout or plank-built craft fitted with sails and outriggers. These carry on a great deal of the inter-island native passenger and utility functions.

 \blacktriangleleft The DALAMIS is a larger, twomasted, 50' to 60' cargo-carrying type found in Southern Mindanao. It is often equipped with auxiliary power.

The LIPA and SAPIT are cargocarrying, 40' to 50' types peculiar to Mindanao and Sulu. They can be distinguished by their rectangular sail, absence of our riggers

Native Craft PHILIPPINE ISLANDS



PHILIPPINE ISLANDS Native Craft

The VINTA is a general fishing-utility dugout with outriggers and a large rectangular sail fitted. The common length is from 30' to 40', although some range up to 60' over all. These are usually seen in the Visayan Islands and south of the Sulu Sea.

BANCA is another dugout fishing type, usually 15' to 25' long, but ranging up to 60' over all in the larger types. \blacktriangleright

Below, left to right-

The LORCHA, a heavy wooden river lighter of varying sizes. The CASCO, a combination river cargo barge-houseboat, ranging up to 80' long, 90 gross tons. The BALSA raft, used to transport passengers, vehicles, and cargo.





• ONI 208-J

STATISTICAL INDEX OF ALL Far-Eastern Small Craft

This booklet is designed to be used with the RESTRICTED section of this supplement which deals with the appearance of Far-Eastern Small Craft

All known operating small craft between 100 and 1000 gross tons considered available to the Japanese are listed in this index. Combined with the other parts of ONI 208-J (Revised), it will present a complete list and statistical summary of all seagoing Japanese merchant shipping. A separate listing of all small craft converted to naval functions brings up to date the combatant aspect of this shipping.

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This index does not include the specialized types such as utility vessels, minor combatant craft, etc., complete lists of which are included in sections of the "appearance" manual.

Supplement No. 2 Index

Issued 3/45 by the Division of Naval Intelligence.

NAVAL CONVERSIONS

This index includes all operational small craft known to have been converted to naval duties. It supersedes all other published lists issued previous to this date. These listings will undoubtedly change and probably expand as the war progresses, and as such information becomes available a revised list will be issued in one of the standard ONI publications.

The various naval conversions as grouped by the Japanese are as follows:

XPG—converted gunboats (larger freighters, passenger types).

- **XPC**—converted subchasers (trawlers, whale-killers, bonito and fishing boats).
- **XAF**—converted supply or refrigerator ships (trawlers, freighters).
- **XCM**—converted minelayers (freighters, passenger types).
- **XAM**—converted minesweepers (trawlers, whale-killers, small cargo types).
- **XAN, XYN**—converted net-tenders (freighters, passenger types).
- **XAO**—converted oilers (tankers, small freighters, barges).
- **XPP**—converted picket boats (small trawlers, luggers, fishing craft).

For appearance, armament, and other characteristics of these conversions, look up the "naval use" for the original ship type (i. e., "freighters" or "small trawlers," etc.) in the preceding pages. These same ships are also included with additional data in the following over-all alphabetical type index.

XPG—CONVERTED GUNBOATS

The majority df these vessels are larger freighters over 1,000 GT, whose main duty includes patrol and escort, as well as cargo-carrying. Armament and other detailed information on these vessels is still very incomplete.

XPG'S UNDER 1,000 GT

A new second second

Aso Maru 704 GT	AK; govt. requisi- tioned; machinery aft; cruiser stern; re-	Kiso Maru 703 GT	AK; govt. requisi- tioned; machinery aft.
	frigeration machin- ery.	Matsuei Maru 165	
Choko Maru #2. 889 GT		#2.	
Eifuku Maru., 756 GT	Passenger.	Shinko Maru:	
Fukuei Maru 847 GT #10.	XPG-AK; cargo.	#1 129	XPP; govt. requisi- tioned.
Hino Maru #2 998 GT	Cargo.	#2 118	Govt. requisitioned.
Hyakufuku 986	Passenger.	#1 GO 934	XPG 144; cargo.
Maru.		Shosei Maru 988	XPG 133; passen~er.
Kenzan Maru. 950	Cargo; also known as Kensan Maru.	Unkai Maru 855	XPF 132; govt. req- uisitioned; cargo.

XPC—CONVERTED SUBCHASERS

This group is made up of converted trawlers, whale-killers, and smaller fishing types between 80-370 gross tons. A fairly complete description of each type is included under "naval use" in the fishing boat categories.

XPC'S UNDER 1,000 GROSS TONS

Name G. T.	Remarks	Name G. T.	Remarks
TRAWLER TYPES		TRAWLER TYPES-	Continued.
Azuchi Maru 398	Reported as transport; also AF (1942).	Hinode Maru #5 140	Fishing boat; may be known as Hinode
Banshu Maru:			Maru.
#18 264	Fish carrier; reported as XAM; refrigera-	Kenkai Maru 89 Misago Maru:	Fishing boat.
#51 234	tion machinery. Trawler; XAM.	#1 265	Trawler; also reported as XAM.
#53	Trawler. Fishing boat.	#2 265	Trawler; reported as XPC.
Chikuto Maru 89 Funo Maru 216	Fishing boat. Fishing boat.	#3 267	Trawler: also reported as XAM.
7. uyo mara #10	whaler.	#8 2 81	Trawier; XAM.

ONI 208-J-SUPPLEMENT 2		No man house	NEVEL CONVERSIONS
Division of Naval Intelligence	- APC'S UN	DER HUUD GRUSS TUNS-	
Name G. T. Remarks	Name G. T. Remarks	G.T. Remarks	Name G. T. Remarks
TRAWLER TYPES-Continued.	ex-WHALE KILLERS-Continued.	UNKNOWN TYPES	UNKNOWN TYPES-Continued.
Nanko Maru 89 Fishing boat	Куо Маги:	Akitsu Maru	Meigen Maru:
Nippon Maru #2 88 Small hand-net fish-	#1	Aoi Maru 244	#16, 71
ĠŌ. ing boat.	#2	Byoritsu Maru 99 Probably hand-net	Mokuto Maria 00 Probably fiching boot
Nisui Maru	#7 340	fish-ing boat.	similar to Tenzan
Oyo Maru	#12	ler. Choun Marin:	Maru #2. Musha Maru 99 Probably hand-net
Rikoku Maru 88 Small hand-net fish-	Nogoto Mora 970	#13 96	fishing boat.
ing boat.	Sobi Maru #2 359 Machinery aft	#15	Nitto Maru: #3 90
Sankyo Marit 89 Fishing hoat.	Shonan Maru:	* #10 \$6	#5
Soga Maru 247 Trawler.	#1 350	Daiko Maru	#8 92 #9 92
Tenzan Maru #2 97 Fishing boat.	#2	mith Daito Maru #1 190 Inactive?	#10 92
G0.	one 3.1" gun:	mach Ensui Maru	#11 #12 92
Yaryu Maru 97 Fishing boat.	inery aft.	Hakusan Maru 89	#13
Yoko Maru	#0 \$50 #592; armed w 3.1" gun; ma	chinery Hassen Maru 99 Probably hand-net	#15 96 #16 96
Zuiko Maru 88	aft.	Isning Doat.	#17
FREIGHTER TVPES	#0	chinery Hinode Maru #3 86	#18 96 #19 96
FREIGHTER TITES	aft.	Hokoku Maru #3 88	#20
Choun Maru:	#8	y ait. GO.	#21 95 #22 95
#18 195 Also reported as XAM.	#10 350 #603; machiner	y aft. Inzan Maru 99 Probably hand-net	Nohi Maru
#21 195 Also reported as	#12. 355 Machinery aft	Isshin Maru #1 48	Noni Maru
Eisho Maru 104	#17 355	Jikyu Maru 88 Probably Tikyu	Notto Maru #3
Keizan Maru 198 Machinery aft; also	Showa Maru 187	Maru.	Noyagi Maru
reported as XPG.	Showa Maru #2 194 XPC #243.	Kainan Mari	Nuzan Maru 99
Nissha Mari #6 642 Gavaramont requisi-	Showa Maru:	Kashin Maru 88	Pinan Maru
tion; also listed as	#3 224 #632 or #554.	Katsura Maru 126	Roshu Maru 00 Brobably hand not
AK.	#6 217 XPC #261.	Kinsui Maru 89	fishing boat.
TUGS AND PASSENGER VESSELS	Taito Maru #1 110 Sloop; may be	known Kintoku Maru #13 45	Ruyi Maru
Havatomo Maru 697 Passenger.	as Daisoku N	faru #1 GO.	Ryosui Maru
Kokuto Maru 109 Icebreaker tug.	Takunan Maru.	Koei Maru	fishing boat.
AT-WHALF KILLERS	#2 343 Also reported a	s XAM. Koshin Maru	Ryusei Maru 99 Probably hand-net
Amplement Man 109	#5 343 Also reported a	SXAM Koshun Maru 88	fishing boat.
Ayukawa Maru 109 Sloop, refrigeration	#0 343 Also reported as #7 343 Also reported a	SXAM. Kumi Maru 80	Shimpei Maru #1
machinery.	#10 343 Also reported a	SXAM. Kuryu Maru	Sninnei Maru #1 52
Fuyo Maru 216 Also listed as trawler.	Tama Maru #8 279 #562.	Kyo Maru #12 344 Presumably whaler.	Shinko Maru
Geiyo Maru 197 Machinery aft.	i Toshi Maru #3 299 #561.	Mato Maru 88	 Shinran Maru

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NAVAL CONVERSIONS

Name	G. T.	Remarks	Name	G. T.	Remarks
UNKNOWN T	YPES-	Continued.	UNKNOWN '	TYPES-	Continued.
Shofuku Maru			Toseki Maru	89	
Shuko Maru	889	APC? also reported	Tsukai Maru	88	
Shukusei Maru.		as A 1 N.	Tsuran Maru	99	Probably fishing
Sobow Maru	99				ren Marti #2 GO
Sobun Maru	99	Probably hand-net			
Sosui Maru	88	fishing boat.	Uji Maru	8/2	XYN-AK.
Soran Marin	88		Urai Maru	89	
Suijo Maru	00		Wabi Maru	99	Probably hand-net
Taian Maru	86				fishing boat; also Wami
Taiton Maru			Yobai Maru	99	

XAM—CONVERTED MINESWEEPERS

This category is made up of trawlers, whale killers, and converted passenger or freighter types, generally within the 200-350-ton range. As XAM's, these craft are equipped with high- and low-speed, single-ship and catenary sweeping gear, degaussing, and usually one 3" gun plus automatic weapons. For a fuller description of specific examples, see "naval use" as applied to whale killers.

XCM—CONVERTED MINELAYERS

In addition to the ships listed below, there are seven cargo-passenger types over 1,000 GT which can be found in ONI 222–J or 208–J. Very little is known about these smaller vessels beyond the information included in the statistical index of this manual.

XAM—CONVERTED MINESWEEPERS

Name G. T. TRAWLER TYPES 275 Ataka Maru	Remarks Fish carrier: refrigera- tion machinery. Machinery aft.	Name G. T. TRAWLER TYPES Chikushi Maru 220 Ebon Maru 195 Elfu Maru 216 Hagoromo Maru 312()	Remarks Continued. May be known Tsukushi Maru.	85	Reisti Mar Rikuzen Rokko Mar Rumoe Ma Sapporo Ma Sonobe Mar Takao Mar
4	·				

JL (J				•
Name G.T.	Remarks	Name G.	Τ.	Remarks
TRAWLER TYPES-	Continued.	TRAWLER TYPE	cs—c	continued.
Haguro Maru:		Takasago Maru	275	
#6	See Hakata Maru #6.	Tamasono Maru:		
#7	See Hakata Maru #7.	#1	313	
Hakata Maru:	Man ha hauma as	#2	316	
#0	Haguro Maru #6	Tamura Maru	236	
#7 257	May be known as Heguro Mori #7	Teshio Maru	397	Reported as AF
Himeshima Maru 274	Refrigerator machin- ery ketch.	Ujina Maru Yoshino Maru	208 227 220	
Hinode Maru:	-	WHALF KILLE	DG	
#15 220		er. MUYDE KIDDE	цo	
#18 235		Kyo Maru:	240	
#20		#1	340	
Hoei Maru 219		Saki Maru	907	
Hokkai Maru 407	Refrigerator machin-	Seki Maru #3	300	
Iwata Mama 159	ery.	Shonan Maru #16	354	
Kaiko Maru 233		Showa Maru:	044	Mashinam of
Kamo Maru 234	Passengers.	#/#R	264	Machinery aft.
Kasuga Maru 219	D 4 1	#10	264	Machinery aft.
Keinan Maru 316	Reirigerator machin-	Takunan Maru:		
Kiku Maru 233	613.	#1	343	Machinery aft.
Kongo Maru #2 GO. 216		#5	343 343	Machinery alt. Machinery aft: report.
Kurama Maru 233	Machinery aft.	#0	010	ed as XPC; sunk?
Misago Maru:	-	#6	343	Machinery aft; report-
#1		87	242	ed as XPC; sunk?
#3		F f	010	ported as XPC:
#11 318	Refrigeration ma-			sunk?
"	chinery.	#8	343	Machinery aft.
Musashi Maru 227	Machinery aft.	#10	343	machinery alt; re-
Naruo Maru. 216 Noshiro Maru #2 216				sunk?
GO.		Tama Maru	264	
Nunobiki Maru 219		Tama Maru:	957	
Otowa Maru 220	Marr ha hmarra as	#7	277	
Kanzan Maru 219	Arashiyama Maru	Toshi Maru	294	
Reisui Maru 219	May be known as	Toshi Maru:	~	
Rikuzan 921	Reishul Maru. Machipery aft	#2	294 200	
Bokko Maru 225	May be known as	#7	298	Machinery aft.
NOLLO MALU 220	Rokuko Maru.	#8	298	Machinery aft.
Rumoe Maru 220	Barrantad AF in 1049	PASSENGER	TY	PES
Sonobe Marii 220	apported ar in 1942.	Aoi Maru	358	Machinery aft.
Takao Maru 220		Bisan Maru	344	Cargo-passenger.

ONI 208-J-SUPPLEMENT 2

Division of Naval Intelligence

Name G.T.	Remarks	Name	G. T.	Remarks	
PASSENGER TYPES	Continued.	FREIGHTER	TYPES	-Continued.	
Fuji Maru 231	Cargo-passenger.	#2	433	May be known Keigin Maru #2	85
Meshima Maru	Cargo-passenger.	# 3	433	May be known	85
Takashima Maru:	Mashimum atta	#5	433	May be known	88
#2 102	ported as XAM-	Miyo Maru	335	Keizin Maru #5. May be known	85
#3 162	Machinery aft; re-	Oi Maru	397	Midai Maru. Machinery aft.	
	AP, AK 563.	Senyu Maru #2. Senyu Maru #3.	281	Machinery aft.	
Togo Maru 303	Cargo-passenger.	Shinpo Maru	294	Also reported as tra	sns-
FREIGHTER TY	PES	Malan Man	100	port.	
Choun Maru:		Talan Maru	193		
#6		Tamei Maru #o	UU. 193		
#7 164		Taisei Maru	240		
#8		Tokubo Maru	10 353		
#18		Vachivo Maru	971		
#21		racinyo marq.	2/1		
Choyo Maru 80		TINTENTOTION	INDEO		
Choyo Maru #2 182		UNKNOWN 1	TPES		
Eguchi Maru #3 199		A A . Inc. 3 County	077		
Fukue Maru #7 285		Ataku Maru	275		
Kiri Maru #5 335		Atsu Maru	246		
Kosan Maru 278		Atsu Maru	160		
Kyojin Maru:		Gonii Morn			
#1 425	May be known as	Genji Mara			
	Keizin Maru #1.	Sakaki Maru	275		

XCM—CONVERTED MINELAYERS

Choan Maru	330	May be known as Choan Maru #2 GO;	Minsei Maru 378 Shinko Maru 934	
Kinjo Maru	330	cargo. Passenger.	Urara Maru 407	

XAN-XYN-CONVERTED NET TENDERS

Most of these conversions are freighters over 500 gross in tonnage, with nine of them known to exceed 1,000 GT. Although little is known about their specific appearance, some can be identified by the stern net-handling platform.

NET TENDERS UN		S TONS	na treious
Name G. T. PASSENGER TYPES	Remarks	Name G. T. FREIGHTER TYPES	Remarks —Continued.
Agata Maru	Mchy.aft. Possibly Hiroshi	Nissho Maru: #3	XYN-AK. XYN-AK.
Kiri Maru #1 GO 531 M	Maru. May be known as Kiri Maru.	Shuko Maru 889	land.
Sansui Maru	TINT AD ATT PRO	Shunsen Maru 971	May be known as Harukawa Maru; 3- island.
Taisnu Maru	XYN-AP-AK 559.	Tatsu Maru 500	XAN-AK.
Toyo Maru #3 985	Also listed as AK.	Toko Maru #1 GO 722	May be known as Toko Maru #1.
FREIGHTER TYPES		Wakamiya Maru 547	Machinery aft; may
Choki Maru		Zuisho Maru 534	miya Maru. Also reported as AK.
Hinoki Maru 599 Hiroshi Maru #3 940	XYN-AK.	UNKNOWN TYPES	
Iwato Maru 526	Also known as Ewato Maru; AK.	Cbokai Maru Kashi Maru	
Kanko Maru 909 Katsura Maru 540 ±	8217 Mohy off	Kishin Maru 897	
Koa Maru #2	Welly all.	Koa Maru #2 GO 572	
Kogi Maru	B-island.	Koei Maru 863	
Kokai Maru	Machinery aft.	Koga Maru 909	Under construction,
Kokko Maru		Kumano Maru 850	1540.
Korei Maru 540		Matsu Maru 509	
Kotobuki Maru: #5_ 720	Reported as XPC.	Osei Maru 641	
Kudamatsu Maru295		Shoeki Maru 890	
Nagara Maru 856	XYN or AK.	Shofuku Maru 891	Reported as #591.

NAVAL CONVERSIONS

XPP—PICKET BOATS

This category includes all local defense vessels engaged in coast-watching, anti-submarine patrol, and short-run convoy escort. The following list should be taken as indicating only a certain group of these craft—perhaps those attached to naval bases or other special units—since it is a known fact

NAVAL CONVERSIONS ···· 2

that the great majority of all seaworthy, smaller fishing, and native types perform auxiliary patrol duties.

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In general, this group contains vessels ranging from 30-150 gross tons, indicating that they are mainly small trawlers, bonito, and other fishing boats, the "lugger" type cargo carriers, and miscellaneous local native craft.

Fuller descriptions are given under "naval use" in the sections applying to these types.

XPP—PICKET BOATS

Name	G. T.	Remarks	Name G. T.	Remarks
TRAWLER TY	PES		TRAWLER TYPES	Continued.
Choei Maru #27 Chokai Maru Fukkyu Maru #1. Fukuichi Maru #4	121 136 152 150	Fishing boat. Fishing boat. Fishing boat. Cargo carrier; fishing	Nanshin Maru #13 . 85 Nanshin Maru #15, 85 #16. Nichinan Maru:	Fishing boat.
Fukushin Maru	155	boat. Fishing boat (Gyo- sen). Fishing boat-ketch:	#10	Reported as XPP- fishing boat. Reported as XPP- fishing boat.
- Charlon - Frank -		may also be known as Fukutoku Maru.	Ponape Maru	Reported as XPP fishing boat.
Fukuyoshi Marua	5_ 119	Fishing boat (Gyo- sen).	Sasayama Maru #5. 116 Seikai Maru 48	Fishing boat; cargo. Reported sunk.
Gyofuku Maru Hakuo Maru	120 135	Fishing boat. Fishing boat.	Seisho Maru 128	XPP 301; fishing boat; auxiliary ketch.
Higashinippo Maru.	n 143	Fishing boat (Drag- net).	Seiun Maru #5 146 Shinko Maru #1 129	Fishing boat. Reported as XPG—
Hinode Maru Hinode Maru #8. Hinoshi Maru #5.	140 118	Reported as XPP. Fishing boat. Fishing boat	Shinko Maru #3 121 Shinko Maru #8 120	Fishing boat. Fishing boat.
Kaiho Maru #2 Kaiko Maru	120	Fishing boat (cargo). Fishing boat; aux, sail.	Shoei Maru #8 GO . 125 Suiten Maru 131	Fishing boat. Fishing boat-auxiliary
Kaiun Maru	133	Fishing boat.	Taihei Maru #1 GO. 109	ketch. Fishing boat; cargo;
Kinpo Maru #1	139	Small trawler cargo ketch; also known	Taihei Maru #2 GO_ 143	Taihei Maru. Fishing boat.
Koel Maru #10.	111	as Kinho Maru #10. Fishing boat.	Taiyo Maru	Fish carrier.
Kosei Maru	111	Fishing boat; reported as XPP.	Takenoura Maru or 116 Takeura Maru.	Fishing boat; auxil- iary ketch.
Meisho Maru	142	Trawler. Fishing boat.	Yachiyo Maru #3 150 Yurin Maru	Trawler.
			a	

tive types	Name G.T.	Remarks	Name	G. T.	Remarks
	FREIGHTER TYPES		UNKNOWN T	YPES-	Continued.
ross tons, her fishing tive craft. a a pplying	Chiyo Maru #3 128 Fuyo Maru #2 159 Hoei Maru 121 Kaio Maru 108 Kiho Maru #1 149 Santoku Maru #2 146 Suzu Maru 106	Cargo. Auxiliary ketch. Auxiliary sail. ex-Tug; cargo. Ketch. Auxiliary sail.	Choyo Maru: #3 #7 #8 #9 Daiho Maru #2 Daijin Maru #1 Daiki Maru	74 74 91 81 81 39 143 79	
	UNKNOWN TYPES		Ebishu Maru #5. Eifuku Maru:	156	
arke	Aikoku Maru #2 38		#3	157	
ICITED	Amijima Maru #12. 00	Contured by Jone.	Eikichi Maru	 -	
Doat.	Allba	nese; may be known as Awaba Maru.	Fuji Maru Fuku Maru:		
	Arafura Maru: #2		#2 #5	39 52	
t as XPP boat. as XPP boat.	#10 37 Asahi Maru: #2 #3		Fukucho Maru Fukuju Maru #5 Fukushige Maru Fukushin Maru Fukuyoshi Maru	102 84 #2 72 184	
boat. boat; cargo. d sunk. ; fishing boat;	#3 GO 147 Benten Maru Bosei Maru: #1 81		#3 #2 GO Fukyu Maru #3. Gion Maru Gyosho Maru #2	92 98 65 65 90	May he known es
ry ketch. boat. 1 as XPG—	#2 80 Chikuzen Maru 52		Hachiryu Maru	#12 97	Ryosho Maru #2.
boat. boat. boat.	Chiyo Maru: #1141 #2144 #3128 #5		Hakko Maru Hanshin Maru Hayatori Maru #	151 92 1 39	May be known as Hayadori Maru #1.
boat; cargo; e known as	Choei Maru Choko Maru Choko Maru Choso Maru #5 89		Heiwa Maru Hiei Maru Higa shinip p Maru #2.	109 on 90	
boat. boat. lier.	Chosbu Maru: #160		Hinode Maru #2 G Hinode Maru #3. Hoei Maru #5. Hokoku Maru #5.	FU. 80	
boat; auxil- tch.	#5 Choun Maru:		Hokuyo Maru #2 Hosai Maru #3 Hosei Maru	80 94 92	
boat.	#13 96 #17 95	Also reported as XPC Also reported as XPC.	Hosho Maru #2 Hyuga Maru	154	

ONI 208-J—SUPPLEMENT 2	XPPPIC	LET BOATS	NAVAL CONVERSIONS
Name G. T. Remarks	Name G. T. Remarks	Name G. T. Remarks	Name G. T. Remarks
UNKNOWN TYPES-Continued.	UNKNOWN TYPES-Continued.	UNKNOWN TYPES-Continued.	UNKNOWN TYPES-Continued.
UNKNOWN TYPES—Continued. Ibaraki Maru	UNKNOWN TYPES—Continued. Kiyo Maru	ONKENOWN TYPES—Continued. Nanshin Maru: #2	Seisho Maru #3
		and the second	

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NAVAL CONVERSIONS		KET BOATS	
Name G. T. Remarks	Name G. T. Remarks	Name G. T. Remarks	Name G. T. Remarks
UNKNOWN TYPES—Continued. Teniin Marii:	UNKNOWN TYPES—Continued. Toyo Maru #2 GO 88	UNKNOWN TYPES—Continued. Yakushi Maru #3 73	UNKNOWN TYPES—Continued. Yamaya Maru 80
#2	Toyo Maru #9 Reported as XPP- fishing boat.	Yamashiro Maru 93	Yawata Maru GO. 39 Also known as Ya-
Tenko Maru:	Toyohama Maru 73 Tsukinoura Maru #2, 98	Yamato Maru:	Yuko Maru
#1	Ukui Maru 39 Ukuzu Moru 148	#1	Yuku Maru 80
Tenyu Maru #1 40	Wafuu Maru	#2 429 Reported as XPP;	Yurin Maru
Teru Maru #5 60 Tottori Maru 37	¥3 150	#3	Zenyo Maru
Toyo Maru	#5 80	#5	Zuno Maru

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ALPHABETICAL INDEX BY SHIP TYPES

Passenger Ships		•					P_{i}	age	10
Freighters					•	•		•	13
Tankers	•			•			•	•	25
Fishing Boats	•								26

Complete lists of Minor Combatant Craft and Utility Vessels are included in the Restricted section of this Supplement

SMALL CRAFT INDEX—by Ship Types

EXPLANATORY NOTES

This index is divided into four parts, representing the main ship types:

Passenger Vessels, Freighters, Tankers, and Fishing Vessels over 100 GT.

Headings are in most cases self-explanatory, but should be qualified as follows:

-Tonnage is always GROSS, except where otherwise noted.

- -Year built indicates the last two digits following 18 or 19---.
- -Dimensions in each case are—Length (waterline) x Beam (extreme) x Draft (mean). All figures are given in feet.
- -Speed is in knots and represents "cruising" or economical rates. (Both speed and draft are sometimes indicated for loaded (L), or light (E-empty) conditions.
- -Propulsion is either diesel motor (M), steam (C-coal), or steam, oilfired (O/F).
- -Construction or Material pertains to wood (W), steel (S), or iron (I) hulls.
- -Remarks in almost every case describe the ship as fully as possible, excepting in the instances where illustrations occur in the manual. Official Japanese Transport numbers (e.g.—AK 259) are included whenever known.

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Agata Maru Ahypyouk	302 132	31 39	130 x 23 97 x 23		M M	8 8	Machinery aft; XYN. British presumed scut- tled '42.
Aioi Maru:	007	01	100 - 00		a		
#10 #12 #15 (See Aoi Maru)	207 304	21 22	120 x 20 140 x 20		č	8	
Akagi Maru	699	88	186 x 27	7	\mathbf{C}	8	
kashi Maru	568	17	134	5	С	Ŵ	
katuski Maru	444	36	151 x 25		м	8	
mami Maru	747	08	180 x 27 x 17.5	8.75	ğ	8	
moy Maru	734	08	185 x 28 x 16	10.5	U M	8	
oi Maru	358	39 35	137 x 28 131 x 25	12	M	8	Machinery aft; XAM reported XAK; may be known as Aio
oi Maru	200	24	140 - 21		С	8	Maru #15.
riake Marii	167	13	100 x 18		č	ğ	
sahi Maru	136	07	115 x 17		č	ŵ	
yame Maru	118	33	102 x 18		Ň	ŵ	
anvo Maru	138	04	104 - 18		C	w	Sloop
enten Maru	231	98	125 x 26		č	ŝ	croop.
lisan Maru	344	22	130 x 22		č	š	XAM.
olinao	247	84	134		Ċ	Ĩ	ex-U. Sschooner.
armen	906	38	185 x 31		м	8	ex-U S
hialing Maru	366	27	130 x 24		ñ	ă	ex-British.
hikubushima Maru.	262	25	110 x 24		M	ŝ	
hitose Maru hiyo Maru	246	37	125 x 23	10. 5	М	8	XAM.
#7	132	34	91 x 20		M	W	
#3. Shoho Maru	126 326	34 35	135 x 23 x 11	11.5	С,	• ^w	AP-AK 491; sunk, be
bosui Maru	156	32	95 x 18		м	8	neveu sarvageu.
houn Maru #1	123	30	95 x 18		M	ŝ	Govt. requis.
hung On	968	04	175 x 32		\mathbf{C}	8	
aikokuten Maru	648	27	170 x 28 x 14.5(L) 5 5(E)	10	С	8	XYN.
enko Maru	103	31	108 x 17			w	Paddle.
Densin Maru	281	73	132 x 19	6.5	м	I	
os Hermanos	838	82	204 x 26		ç	I	ex-U. S.
nime Maru	638	03	178 x 25	10	ç	8	
Sha Maru	756	22	180 x 27 x 15	a (19	ğ	5	Demosted sumbran
ano wiaru	741	23	5.2 (E) 15 (L).	з (L)	U	ø	salvaged.

ONI 208-J-SUPPLEMENT 2 Division of Naval Intelligence

PASSENGER SHIPS—Continued

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SMALL CRAFT INDEX

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Eiryu Maru Fubuki Maru Fuji Maru Furin Maru	758 140 231 621	28 07 29 29	175 x 27 103 x 19 110 x 20 148	9	C C M C	8 ¥88	XYN. XAM. Govt. requis.; may be known as Fou Ling	Koan Maru Kochi Maru Kohan Maru Konahana Maru Konahana Maru	661 303 551 179 144	13 07 03 30 99	170 x 25 x 14 141 x 21 171 x 24 120 x 18 113 x 16	9	CCC M M	8 8 8 8 8 8 8	AP-AK.
Governor Wright	496	38	163 1. o. a. x 28		м	8	Maru. Attacked by Jap. air- craft: supk? salvaged?	Kong So	789 796	15	157 x 27		0	8	ex-British; captured 1941.
Hagi Maru Hakuhun Maru Hakusan Maru Hayataka Maru	231 184 594 836	29 14 03 23	110 x 20 x 7 110 x 19 155 x 24 x 13.5 190 x 31.5 x 13	9 12	MCCCC	8888	Govt. requis. Reported AK.	Koshima Maru Koun Maru #2	187 606	03 13	$\begin{array}{c} 187 \times 27 \times 6 \text{ (E)} \\ 15.5 \text{ (L).} \\ 115 \times 20 \\ 182 \times 25 \times 7.5 \\ \text{(E)} \end{array}$	9.8 9 (E)	0 0	88	Koryu Maru.
Hayatomo Maru Hideyoshi Maru Hiro Maru	697 712 549	24 78 27	170 x 29 191 x 27 x 11.5 170 x 25 x 13.5	11 7 10	M C C	8 1 8	AP-AK. AK. XAN-May be known as Hiroshi Maru.	Koyo Maru Kunsan Maru Kutubari	136 735 237	11 04 15	13.5 (L) 114 186 x 28 x 14 115 x 24	8 (L) 10	o c c	W S	Sloop. ex-British.
Hizen Maru Hwei Ping Hyakufuku Maru	946 760 986	91 95 28	222 x 30 x 16 212 x 28. 200 x 30 x 15 (L).	9 8	CCC	888	AK (?) Chinese. XPG.	Kwong Fook Cheung. Kyodo Maru #18	881 794	23 08	169 x 28 180 x 28 x 11.5 (E). 12 5 (L)	11.5 (E)	C O	8	
Isabela Iwami Maru Iyang Maru	179 774 943	93 15 21	120 x 18.6 188 x 25 x 15.5 197 x 31	8 14	CCC	W 8 8	ez-U. S. AP-AK.	Kyojo Maru Lung Shun	372 921	13 90	130 x 24 200 x 29	10 (1) 7	 С	8 8	
Jan Carstenz	164	38	113 (o. a.) x 21.		м	8	ex-Dutch; machinery aft; believed scuttled	Marushin Maru #2 Masamune Maru Masayoshi Maru	196 143 971	35 10 20	109 x 20 122 x 16 194 x 31 x 3.5	10 (E)	M C O	8 W 8	AK.
Jinpu Jintsu Maru Joan I	223 995 112	29 21 13	120 x 20 210 x 32 x 15 (L)_ 80	11. 5	M C C	8 8 8	Govt. requis. AP-AK; may be known as Shindo Maru. ex-British.	Megami Maru Meshima Maru	174 336	29 28	(E). 13.5 (L) 112 x 15 135 x 22	9 (L)	M	88	Govt. requis. XAM.
Kaigo Maru Kairvu Maru	173 576	37 23	110 x 18.5 155 x 26 x 12.5	9	M C	8	Govt. requis. Machinery aft: refrig-	Midori Maru Mihara Maru Miho Maru	458 697 515	22 25 13	150 x 30 170 x 29 163 x 26 x 14	11 11 9	M C	888	АР. АР-АК. АК.
Kamome Maru	131	26	(L). 100 x 18		M	8	eration ship.	Misaki Maru 2	766	16	(L). 180 x 29 x 14.5 (L).	8.5	o	8	AK.
Kannoura Maru	577	07	175 x 23	8	U	8	sloop; may be known as Kannoura Maru #11; reported sunk and salvaged.	Mishima Maru Miyako Maru Miyoshima Maru Moono Maru	138 971 297 739	35 14 02	98 x 17 190 x 32 x 16.3 141 x 20 186 x 28 x 14	10	M O O O	93 93 93 93 11	AP-AK. Sloop. AP-AK
Katsurahama Maru Kimigayo Maru Kimigayo Maru #2	716 670 919	07 91	186 x 27 x 15.5 176 x 27 x 13 206 x 35 x 10.5 125 x 22	10 7 10	COC M	8888	AK. AK. AP-AK.	Munakata Maru	980	18	210 x 32 x 4.5 (E). 5 (L).	9.5 (E) 8 (L)	ŏ	Š	AP-AK.
Kinyo Maru Kinsei Maru	331 130 132	35 14 02	100 x 20 100 x 18		С М	888	Govt. requis.	Mutsu Maru Nagaragawa Maru	520 990	23 17	160 x 27 x 10 190 x 30 x 6.7	12 8.5	 0	8 8	AP-AK. AP-AK 129.
Kiri Maru #1 GO	531	29	160 x 28 x 11.5	11	M	Š	XYN; also known as Kiri Maru.		200		(E). 16.5 (L)	or 10	-	-	

PASSENGER SHIPS Continued

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Name	Gross tons	Year built	Dimensions (ft.)	Speed. (kts.)	Pro-Mai pul-ia sion ia	te r -	Remarks	Name	Gross tons	Ye ar built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Namikiri Maru	589	25	173 x 25	10	C S	3 A	P-AK.	Shingishu Maru	709	15	177 x 25 x 8 (E)	8	С	8	AK.
Nam-Ky Niihama Maru Nikkai Maru	271 441 300	98 88 05	166 x 22 142 x 20			5 5 7	ex-French.	Shini Maru	548	99	15 (L). $148 \times 28 \times 7.3 (E)$ 14 (L).	8.5 or 9	С	8	AK 271.
Oigawa Maru Oita Maru Okesa Maru Oki Maru Oki Maru #2 Ondo Maru	575 712 488 499 466 688	97 07 32 28 36 23	177 x 25 187 x 27 x 15 160 x 27 150 x 26 155 x 26 170 x 28 x 7.8 (E)	9.5 10 12 (E)	C S C S M S C S M S M S		AK 1030. Govt. requis	Shinkai Maru Shintaiko Maru Shintohoku Maru Shirogane Maru Shirogane Maru	145 108 352 929 123	04 34 25 38 12	103 (1. o. a.) 93 x 17 125 x 22 185 x 31 x 10 101 x 16	14	C M C M C	WSSS SS W	XAM in Jan. '41. AP. Govt. requis.; also known as Sirokane Maru.
Oshima Maru	339	29	10.5 (L) 135 x 22	11 (L)	c s	3		#1	133	04	96 x 19		g	8	
Pandai Perola	166 150	28 35 40	105 (1. o. a.) 80 (1. o. a.)		M S M S		ex-British. ex-Portuguese; machin- ery aft. or-British	#2 Shokai Maru Shosei Maru Shosei Maru	274 998 774	03 34 29 28	130 x 19. 210 x 31 x 14 (L). 180 x 27 x 15	 9 10	MCC	8888	Govt. requis. XPG 133. XYN.
Rebun Maru	352	10 23	130 (l. o. a.)		C S	3 (Govt. requis.; may be known as Reibun Maru	Shuyo Maru Soya Maru	108 692	19 15	165 x 26 x 14 (L)	9			AP-AK; believed sal- vaged and recom
Rejang Rhu	288 254	34 40	126 (l. o. a.) 127 (l. o. a.)		M S M S	Зе Зе	vs-British xx-British; believed scuttled, Singapore '42.	Stanley Subok Sumire Surigao	479 148 161 797	04 35 35 38	141 x 24.6 96 x 21.1 110 x 19 174 x 29.8		O/F M M	8888	ex-Chinese. ex-British. ex-U. S.
Rishiri Maru Ryugu Maru #2 Ryuhei Maru Ryukyu Maru Ryuzan Maru	140 110 726 731 417	24 34 10 06 10	80 x 21 76 (l. o. a.) 180 (l. o. a.) 185 x 28 x 16 160 x 30	9.5 10		8 7 8 (8 2	Hovt. requis. A.K.	Suzuya Maru Tai Ming Taifuku Maru	901 649 678	22 13 24	190 x 32 x 13 (L) 164 x 27 175 x 27 x 8 (E) 14.5 (L).	10 11.5(E) 9.5 (L)	C C C	8 8	AF-AK 107.
Sado Maru #2 #8	179 230	27 23	110 x 19 113 x 21		C S C S		Govt. requis. Govt. requis.	Taiko Maru #18 Taisan Maru	168 419	36 12	110 x 19 160 x 30		M C	w s	Govt. requis.; trans-
Sanriku Maru	199	22	111 (S), 107 (BL) x 19.		c w	v 	-	Taisho Maru	830	89	$195 \times 28 \times 8 (E)$	11.5(E)	o	8	XYN; AK 793.
Sanriku Maru #2 Sansui Maru Sanyo Maru Sasebo Maru Sasebo Maru	185 812 976 545 120	23 34 92 23 20 31	111 X 19 190 X 31 212 X 30 X 17 (L) 140 X 30 X 16.5 90 X 51 96 X 10	12 9–10 11			KYN. AK. AP. Govt. requis.	Taishu Maru Taka Maru	516 302	32 35	160 x 26 120 x 23	12 8	M M	ន	XAN, AP-AK 559. Machinery aft; may be known as Taika Maru.
Satsuki Maru Sekiyo Maru	120 629	33 16	102 x 18 168 x 27 x 11 (E)	8	M W C W	v v	AK.	#2#3	162 162	33 33	107 x 20	10 10	M M	8	XAM; AP-AK 493. XAM, AP-AK 563.
Senkai Maru #1 Shiga Maru Shinei Maru	197 742 973	32 06 17	17 (L). 115 (l. o. a.) 185 x 28 x 16 196 x 32 x 6 (E)	10 8.5	M S C S		AP-AK. AK 687-	Tama Maru Tamae Maru	801 937	24 17	200 x 31 x 14 190 x 31 x 6.5 (E) 16.5 (L).	12 8 or 9. 5	C C	88	AP-AK 119. AK.
12			15.5 (L).	<u>∵</u> 1 o <u>r</u> 9`				Tamamo Maru	209	03	116 x 20		С	8	

ONI 208-J-SUPPLEMENT 2 Division of Naval Intelligence

Name

Tandjong Balei

Tandjong Pinang

Tanshu Maru

Taramizu Maru #6....

Tenryugawa Maru

Tensho Maru

Tenyu Maru

Thumingala_____

Tin Yat

Toíuku Maru

Togo Maru

Tokiwa Maru #1.....

Tokushima Maru....

Tonegawa Maru.....

Toshima Maru

Toyama Maru.....

#2____

#3.....

#10.....

#11_____

#12_____

#15_____

#16_____

Tsukinada Maru

Tsuru Maru #1

Tsuru Maru #2.....

Tsuruha Maru

Urado Maru #2

Urakawa Maru

Urashio Maru

Usa Maru.....

Usa Maru

Tovo Maru:

Gross Year

141

133

328

122

546

601

735

293

942

112

303

885

407

574

155

913

120

985

162

196

197

219

266

527

125

125

361

170

343

897

843

176

built tons



Speed (kts.)

8.5 (L)

11

10

13 (BL)

Dimensions (ft.)

27 108 x 19.7

36 97 x 22

26 140 x 22....

35 101 x 18

97 177 x 25 x 15.5 10(E)

 $180 \times 27 \times 8 (E)_{-11} (E)$

141 x 28

181 x 30

102 x 17

190 x 31 x 6.5 (E). 12 (E)

151 x 26 x 25 (L).

14 (L) 10 (L)

16 (L) 16 (L)

103 x 17 210 x 32 x 7.5 (E) 13 (E)

120 x 18

123 x 20 115 x 19 x 20....

125 x 20

140 x 21

68 x 19....

68 x 19

22 130 x 22 97 98.....

15 130 x 22

22 114 x 17 x 6.5

90 196 x 30.5

15 180 x 31 x 16.5

169 x 23.....

16 (L) 11 (L)

174 x 26

125 x 22

177 x 25

105 x 19 x 7

19 185 x 30 x 5.5 (E) 5.5 (E)

(L).

26

04

39

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AK.

#37.

AP-AK.

ex-British.

XAM.

XYN.

Sloop.

Maru.

AP-AK.

AK.

Govt. requis.; also

known as Uraga

PASSENGER SHIPS—Continued

SMALL CRAFT INDEX Pro-pul-sion Year built Mater-Gross Speed (kts.) Remarks Dimensions (ft.) Name Remarks tons ial ex-British; machinery Uwajima Maru: 10 159 x 23 #13_____ 471 С S Sloop; govt. requis. ex-British: machinery 12 145 x 21 #14.... 343 CC s Sloop; govt. requis. #15._____ 824 13 180 x 28 10 or s Sloop; AP-AK 27. 10.4 May be known as #18.... 885 22 182 x 30 x 15.5... С 11 AP-AK 301. Tarumizu Maru #6. #21_____ 739 $\overline{04}$ 180 x 28 x 16.5... Č AP-AK. 10.4 8 #22 725 180 x 28 x 16.5... Č AP-AK. 04 10 S #23.... 345 35 145 x 22 x 20.5... 15 MC 180 x 27 x 15 S AP-AK. #25____ 744 07 10.5 Wan Yuan С 674 39 157 x 29.6 ex-British. Yachiyo Maru 271 37 130 x 23 \mathbf{C} S XAM? ex-British: scuttled? Yaedake Maru 358 99 128 x 25 9 С s AP-AK. Yamamitsu Maru... 845 07 210 x 29 x 15.3 \mathbf{C} S 11 Yasu Maru 30 85 x 18 s 111 м Yokosuka Maru #5___ 36 98 x 17 w 107 м Yone Maru: #1____ 154 27 92 x 18 Μ 92 x 17.5 #2____ 154 27 м s AP-AK 235. 7.5 9, 5 M S AP-AK 255. #3.___ 166 2892 x 17.5 193 33 106 x 19_____ M ŝ #5____ AP-AK 629; machinery aft. Yori Maru #1 151 34 93 x 22..... Μ w 105 x 21 Yoshitomo Maru #12. 209 34 \mathbf{S} м Yuen-Kiang Maru... 875 195 x 38 С 03 8 s AP, sloop. Yugao Maru 200 87 111 x 18 С

FREIGHTERS

A. M. Bisbee Aga Maru Agustina Maru	419 529 296	02 21 29	131 x 24 170 x 33 134		O M	₩ s s	ex-Chinese.
Alabat	200		169 x 94		34	a	or II S (Philippings)
Alfoer	473	34	156 x 28		M	ŝ	ex-Dutch; machinery
Aloha	238	26	120 x 24		М	s	ex-U.S.: machinervaft.
Ampang	213	25	118 x 23		O/F	S	ex -British.
Anakan	795	38	192 x 29		Ń	s	Machinery aft; ex-
Angas	247	24	128 x 26	E	O/F	S	Enidtown. ex-British; machinery alt.
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FREIGHTERS Continued

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Anjou Annam Asahi Maru	504 259 986	99 01 89	149 x 25 159 x 23 216 x 31	8.9 or	CCC	8 8 8 8	ex-Portuguese. ex-French. Reported as AK.	Borys Boto Maru Bujun Maru	243 225 801	27 08 24	121 x 24 112 x 24 145 x 38 x 20	5	ccc	888	ex-French. AC; collier.
Asahi Maru	284	34	120 x 23		М	8	Government requisi-	Bull	452	07	160 x 26		С	8	Siam; machinery aft.
Aso Maru	704	32	170 x 30	11	м	s	tion. Machinery aft; refrig-	Cambay Prince	455	13	158 x 30		с	8	ex-British; machinery aft.
•		_					eration machinery; also known as PG or	Captain Coppens	206	18	118 x 28		M (aux.)	W	ex-U. S.; schooner.
Atjeh	495	38	158 x 30		м	8	AK. ex-Dutch; machinery	Caroline Maru	320	36	130 x 22	9	М	8	Machinery aft; gov- ernment requisition;
Atsu Maru Atsuta Maru Auby	228 499 636	40 11 08	98 x 25 179 x 22 202 x 34	8	C C	พ ร ร	ex-British; scuttled, 1942.	Cetus Cheng Chun Cheng Ping	943 252 525	04/31 18 20	215 x 31 118 x 21		c	s w	also reported as Caro- lina Maru, AK. ex-U. S.; 3-island. ex-Chinese. ex-Chinese.
Avernus	300			•••••			ex-British; lighter; cap- tured, 1941.	Chiyo Maru Choan Maru	335 330	36 35	136 x 24 135 x 23 x 10.5		м	S S	Machinery aft. XCM: may be known
Ayame—GO Ajikawa Maru:	307	90	135 x 28			8		Choki Maru	927	39	188 x 31 x 16.9.	10	м	 8	as Choan Maru #2. XYN,
#1 #2	294 299	08 08	120 x 26 125 x 26			8 8		Choko Maru Chokwa Maru	889 296	39 40	187 x 31 x 16.9	10	M M	8 8	XPG.
Ban Ho Liong	490	95	154 x 29		C.	8	ex-Chinese; machinery	Choshin Maru	314	35	120 x 23		M	ŝ	Government requisi-
Banka Banshu Maru	623 992	14 39	186 200 x 33	10	C M	8 9	ex-British. Refrigeration machin-	Choun Maru: #23	213	35	120 x 22	11	м	8	tion.
Banshu Maru:					•		ery.	#24	213	35	120 x 22 x 35	iī	М	8	
#3	725	34	170 x 30 x 14	9	М	8	AK; may be known as Banshu Maru #88	Chuanchiu	492	92	164 x 23		c	8	ex-Chinese.
#17	460	23	158 x 26 x 10.8.	9	O/F	8		Churries	004 788	31 78	145 X 28		č	Comp.	ex-Dritisu.
Bassac Battambang	214 668	90 88	167 x 23 192 x 28		ç	8	ex-French.	Compania de Fili-	785	90	180 x 30		õ	ŝ	ex-U. S.; 3-island.
Baynain	659	12	175 x 28		С	8	ex-British; see Heinan	Doigon Mora #5	510	95	160 - 90 - 19	10	n	a	Deported sumbr 1026
Benten Maru	112	35	95 x 18		М	8	Government requisi-	Daigen Matu #5	010	90	100 1 20 1 12	10	U	5	believed recommis-
Berouw	756	19	184 x 29		С	8	ex-Dutch; machinery aft; stranded, 1942.	Daikokuzan Ma r u	692	11	188 x 26 x 16.5	8 or 9	C	8	biolitical
Beryl	671	20	190 x 28		C	8	ex-French.				5.5(E)				
Bhadana	320	08	135 x 26		0	8	Machinery aft.	Dairyu Maru #2	302	17	129 x 24		O	W	
Bhanurangsi	686	27	200 x 32	13	м	8	XI G D	Daishin Maru	300	37	120 x 23		M	8	.
Bohol II	367 249	01 30	150 x 26 135 x 27		M	8	ex-U. S.; ex-Borongan. ex-U. S.; reported as	Don Joao	714	85	192		O	I	ex-Portuguese; seized, 1939; ex-Pao Hua (Chinese).

ONI 208-J-SUPPLEMENT 2 •

Division of Naval Intelligence

FREIGHTERS—Continued

TOL SMALL CRAFT INDEX

TECH ROOTER

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Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gress tors	Year	Diminsions (#.)	_\$peed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Don Juan O	498	02/28	150 x 25		σ	8	ex-U. S.	Fumi Maru Fuso Maru	254	35	113 x 26	7 07 8 5	м	W	A 17
#1	483	13	154 x 29			S	Also known as Toun	Fuyo Maru	377	35	130 x 26		м	ŝ	Machinery aft.
#2 #3	482	13	154 x 29. 154 x 29.			20	maru.	Gemas	207	25	125 x 23		O/F	8	ex-British; scuttled,
#4#5	471 493	16 37	154 x 29 154 x 30			8 8		Ginpu Maru #7	344	31	117			8	1942.
Dusit	476	11	160 x 26		Ø	s	Siamese; machinery aft.	Giyu Maru	878	38	185 x 30 x 5.2	. 8.5	\mathbf{M}	8	AK.
Ebisu Maru	490	35	162 x 28		м	s	Government requisi-	Gladys	358	10	150 x 25		С	8	3-island; ex-British; sunk, 1941; reported
Eguchi Maru:	400		145 - 09 - 19	10	м	g		Goro Maru	301	35	120 x 23	8. 5	м	8	as raised. Machinery aft; AK
#0 #7	499 500	38	145 x 28 x 15	10	M	8	3-island.	Gouverneur General	691	09	174 x 29		o	8	ex-French.
Eisho Maru #7 Ekishin Maru	220 993	38 18	208 x 31 x 15.5 (L)	7.5(L)	M.	8	Machinery art.	Governor Taft	249	30	135 x 27		м	s	ex-U. S.
Emilia	278	31	7.7(E) 143 x 26	8.5(E)	M	S	ex-U.S.	Haichang	955	90	220 x 31		Ø	I	Manchurian; see Kai-
Emuy	200	89	117 X 15		ğ	w	Also known as Mamyo	Hainan	270	98	159 x 23		O	8	ex-French.
Diniyo Mara #1	905	10	144 - 05			с С	Maru #1.	Hakka Maru	889	39	187 x 31 x 15.5	10	м	8	AK 1027; machinery
	990	19	144 1 20		101	a	tacked by Jap planes	Hakugin Maru	316		127 x 25	- 8	м	ន	May be known as
Ewato Maru							XYN; see Iwato Maru.	Hakugin Maru #2	283	•	125 x 26	- 6.5	м	8	Ex-Navy Vessel; may
F. Escano	452	11	180 x 27		0	Comp.	ex-U. S.	The beacher Manuel #0	071	40	110 - 00		v	a	gane Maru #2.
Fook On	738	24	161 x 27	*-*-*-	M	8	ex-British.	Hakushu Maru #2	251	40	112 X 22		M	ă	
Fortuna	527	23	151 x 27		м	8	ex-U. S.; poop-and- bridge plus focsle.	Hakushu Maru Hakutetsu Maru:	218	38	131 X 22		м	8	
Fu Hai	358	09	124 x 22	•••••	0	8	ex-Chinese.	Trakubebbu Murut					~	~	
Fuku Maru	245	39	95 x 26		м	w		#1	626	17	180 X 25 X 13.5	7 OF 8	ğ	20	AK.
Fuhsing	696	10	172 x 26		0	8	ex-Chinese.	#5	799	33	197 x 29 x 14.5	10	ŏ	ă	AK: 3-island: machin-
Fuji Maru	703	32	170 x 30 x 13	11	м	8	AK; machinery aft.	#0			10		Ū	2	ery aft.
Fukuei Maru	269	34	120 x 23		м	8		Hakucho Maru	268	27	131			8	-
#5	285	34	120 x 23		М	8		Hakuhun Maru #2	860	36	200 x 30 x 15.5	10 or 11	С	8	AK
#6	285	34	120 x 23		M	19 0	X 4 M	Hakuyo Maru	384	35	143 x 23	8.5		8	AK 452.
#(#%	280	04 35	120 x 23	9	M	ŝ	AK 283.	Hanshin Maru:							
#9	617	35	170 x 28 x 13.5	10.5 or	M	ŝ	AK 179; machinery	#2	752	04	190 x 30	8.5		8	
#10	847	36	185 x 31 x 15.5	9 or	м	8	XPG-AK.	#0	102	04	190 ¥ 90	. 0	0	9	
Fukuin Marii	850	13	130 x 24	10.7		8		Hashemi Heiwa Maru	634 312	18 36	175 x 30 129 x 24		. С М	8 8	ex-British.
د بجمع بم الله التركيلية المع و م	~~~~	~	AVV A GILLLORANA			~				-•				_	

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SMALL CRA	FT	IND	EX				FREIGHTERS	-Continued
						<u></u>	Les Starte	<u> </u>
Name	Gross tons	Yes buil	Linesidis (ft.	Speeds (ktt.)	Pro- pul sign	Mat ar jal	Remarks	Name
Heivo Maru #1	307	30	115 y 27		м	w		Houn Maru:
Heivy Mary	973	18	100 x 32 x 16	8	Ĉ	s	AK	#2
Hidaka Maru #5	228	08	129 x 17		č	ธ	Sloop government req- uisition.	#5
Hikoshima Maru	977	18	208 x 31 x 16	9 or 7.5	м	8	AK.	
Himetaka Maru	554	4 0	146 x 27		м	8	Government requisition.	Hoyo Maru Hozukawa Mar
Hino Maru #2	998	35	200 x 35 x 10	10	м	8	XPG.	Hojo Maru
Hinoki Maru	599	37	166 x 28 x 14.5	10.5	м	8	XYN.	
Hiroshi Maru #3	940	18	190 x 31 x 16.5	10.0 or 8.5	С	8	XYN-AK.	Hsin Tseangtah
Hirota Maru	479	34	162 x 28		м	8	AK 1021.	
Hitaka Maru	740	02	188 x 25	9	o	8	Government requisi- tion.	Hsing Yangtse.
Hiuga Maru	286	30	115 x 21		o	8	Government requisi- tion.	Ihei Maru
Hiyoshi Maru	363	36	135 x 23					Imizu Maru
Hiyoshi Maru	328	18	111 x 25.5		C (aux.)	w	Schooner.	Imizu Maru Inabasan Maru
Ho Shun	886	01	216 x 30	10. 5	° C '	8	Manchurian; see Wa- jun GO.	Inushima Maru
Ho Yuan	711	05	180 x 27	••····	С	8	ex-Chinese; ex-Peiping.	#1
Hock Lee	422	08	135 x 22		С	8	ex-Portuguese.	#2
Hoi Nam	777		175 x 29		С	w	ex-Chinese; ex-gunboat	
Hokoku Maru	279	18	126 x 24		0	w		# 6
Hokushin Maru	468	10	149 x 23	10	o	8	AK.	Ise Maru
Hokushin Maru	213	22	109			8		Islas Visavas
Hong Kwong	207	27	115 x 22		C	8	ex-British.	
Hoong Chen	. 555	30	168 x 27		. М	8	ex-Chinese; reported in Yangtze River Serv- ice.	Isshin Maru Iwaishima Mar Iwato Maru
Hoong Heng	. 504	29	168 x 27	*******	. М	8	ex-Chinese; Yangtze River Service.	
Hoong Li	. 555	30	168 x 27		. М	8	ex-Chinese; reported in Yangtze River Service.	Jade Jai Jerng Kha
Hoong Yuan	479	29	168 x 26		. М	8	ex-Chinese; reported in Yangtze River Service.	Jarak Jean Dupuis Jeram
Horonai Maru	. 999	18	196 x 31	. 7.5	O	8		

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Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Houn Maru:							
#3	301	18	114 x 29		M	w	Machinery aft; auxili-
#5	336	18	122 1 29		(aux.) M (aux.)	w	ary schooner. Machinery aft; auxili- ary schooner.
Hoyo Maru	479	18	140.5 x 28		Ċ	w	Auxiliary schooner.
Hozukawa Maru	339	96	143 x 18.5		С	w	• • • • • • • • • • • • • • • • • • • •
Hojo Maru	200	33	110 x 20			. 8	
Hsin Tai	481	1840	169 x 27		C	I	ex-Chinese; see Shintai
Hsin Tseangtah	933	08	210		0	8	ex-British; Yangtze River Service; ma- chinery aft; captured 1941
Hsing Yangtse	921	27	181		. o	8	ex-British; also re-
Thei Maru	266		128 x 22			. 8	F
Ikuta Maru	485	34	162 x 8		. M	8	#1039.
Imizu Maru	986	18	$202 \times 29 \times 16.5 (L)$	7.5(L)	0	8	AK.
Imizu Maru	485	11	160 x 29			. 8	
Inabasan Maru Inushima Maru:	. 989	18	$190 \times 32 \times 16.5(L)$.	_ 10(E)	С	8	
# 1	. 598	98	169 x 30 x 12(L).	. 7(L) 9(E)	С	8	AK; sloop; machinery
#2	. 61 6	99	164 x 31 x 11.5(L)	. 9(É)	С	8	AK 461; sloop; machin-
#6	586	99	160 x 30 x 11(L).	. 7(L)	o	8	AK 265; sloop; machin-
Ise Maru	515	19	135 x 33		0	w	Auxiliary barkentine.
Islas Visayas	516	84	166 x 26		Ċ	8	ex-Panamanian; cap-
Isshin Maru	493	11	167 x 22		. O	8	tailed 1941.
Iwaishima Maru	695	16	170 x 27	2	ō	ã	AK . Ar-Filmi Meru #2
International Manager	. 000 804	20	160 - 97		Ň	2	VVN AV mor be
Iwato Mard	. 040	38	100 1 2/	- 10	141	a	known as Ewato Maru.
Jade	. 671	20	181 x 28		. 0	8	ex-French; ex-Louis Blanchet.
Jai Jerng Kha	. 482	08	152 x 29		. C	8	Siamese.
Janaki	857	22	195 x 33		. 0	8	ex-British.
Jarak	. 208	27	127 x 23		. 0/F	8	Scuttled, 1942.
Jean Dupuis	. 682	10	180 x 29		. C	8	ex-French.
Jeram	. 210	27	110 x 22		. C	S	ex-British; scuttled, 1942.

ONI 208-J-SUPPLEMENT 2 .

ONI 208-J-SUPPL Division of Naval Intel	EMEN lligenc	e 8					FR	EIGHTE	RS—Contin	ued) <i>I</i>	A	SI	MALI	C	RAFT I	NDEX
Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remar	ks	N	ame	Gross tons	Year built	Dimen	sions (it.)	Speed (Irts.)	pur M sion	Later-	Rema	rks
Jerantut	217	27	110 x 22		σ	8	ex-British;	scuttled,	Kanko M	aru	909	40	185 x 3	1 x 15.5	10	3	s	AYN.	
Jinko Maru	54 6	19	166 x 27	. 8	С	8	Government	requisi-	Kanlaon I	I	477	31	176 x 30)	0 7 9	м	s -	ex-0, s.	
Jo-O Maru	401	04	161 x 21		O	8			Kannan I	18ru	3/8	10	144 X 21	X 15.8		0	8	S100p.	
Juho Maru #3	430	28	151 x 23		O	8	Government	requisi-	Kanto M	aru #1	482 218	12	170 x 22 120 x 25	2	8 10	U	s s		
Ini Ding	801	00	160 + 95		0	g	tion.		Kashi Ma	111	654	40	171 x 99	x 14	ã	M	ã	AK machin	orv oft
Jui Fing	001	17	100×20 = $17/T$	0(T)	č	9						10	1,1 1 2	/ A 11	or 10	141	5	machini	ory all.
Jun Maru	904	14	202 1 20 1 1/(1)	. 9(L)	č	6	л к		Kashii M	aru	486	82	169 x 2	26 x 11		С	I		
Kadeik	334	19	185		C	8	British pad	dle; pre-	Kashima	Maru	879	38	185 x 31		10	м	s		
Kami Marii #9							See Kozen N	1000.	Kashiwa	Maru	972	18	100 x 31		8	0	s		
Kaiko Maru	491	11	200 x 22.5			. 8	. Det Rozan I		Kashiwa	Maru	222	24	140 x 26	5 .		O	S	Government	requisi-
Kaiko Maru	218	38	92 x 25			. 8						-					-	tion.	
Kainan Maru	524	39	199 x 26	. 14 .		. 8	Government	requisi-	Katipuna	n	208	73	130 X 22			M	1	ex-U. S.	
							tion; conv	verted to	Katsura I	viaru	540	38	160 X 28	5 x 12.9	10.5 or 10	м	8	XYN;mac	as #621 hineryaft;
Каю	205	11	110 x 25	********		s	Government	requisi-	Katsuyan	1a Maru	387	40	132 x 24	£		м	s	Government tion.	requisi
Voia #9	448	09	159 - 22		C	g	tion.		Kazusa M	laru	269	27	150 x 28	3			s		
Kalu P4	225	17	144 - 20		č	g	or French or	ntured	Kajo Mar	u	383	25	130 x 22	2		o	s	Government	requisi-
Карше	020	20	144 A 40		U	8	ex-rienci, ca	spiatoa.										tion.	
Kairyu	201	10	145 5 - 04		с.	107	Dorbanting		Keihan M	laru	342	28	160 x 2	5			s		
Kalsel	201	18	140.0 1 24		(aur.)	**	Darkentine.		Keishin I	1aru	369	95	139 x 2	3			W		
Kaichu Maru	480	16	162 x 28 x 11		M	s	Machinery a	ft.	Kenzan M	laru	950	38	206 x 3	0 x 15.3	9 or	o	ន	XPG.	
Kaishun Maru	495	35	165 x 27 x 12.5		M a	ŝ	Machinery a	ſť.			010		1 ** 0	n	11	~	~		
Kaiten Maru	276		128		С	S	-		Knmer		313	04	159 X 2	3		ğ	8	ex-French.	
Kaiun Maru #1	261	37	102 x 24			w			Kiang Cr	ung	513	17	174 X 24	4		0	8	ex-Chinese.	
Kaiyo Maru	248	99	128 x 22			8		•	Kiangtin	3 	423	25				0/F	s	ex-German.	
Kaikinoura Maru	838	29	150 x 33	5	M	8	Machinery a	it.	Kidoel		775	27	189 x 3	3		C	S	ex-Dutch; 3-	island.
Kako Maru #3	311	39	125 x 23		M	8			Kiku Ma	ru	415	32	145 x 2	6	10	M	s	AK 771;	machinery
Kakuwa Maru #21	200	22	122 x 21 x 9.5		C	w						~ ~ ~					~	ait.	
Kaladan	330	18	185				ex-British;	presumed	Kiku Ma	ru	283	34	120 x 2	3		M	8		
			100 - 00		3.6	a	scuttieu.		Kiku Ma	ru	271	19	118 X 24	1		0	w		_
Kami Maru	189	34	100 x 22		M	8	#247.		Kim Kea	n Aun	311	-29	110 x 30)		M	W	ex-British; s	chooner.
Kamikaze Maru #2	382	38	124 X 28		M	77			King On.		677	18	151 x 3	1		C ·	s	ex-Portugue	se.
Kamo Maru	231	20	122 X 20 X 10		ů	W T/C			Kinshu M	1aru	239	40	105 x 2	ö		C	8		
Kamokawa Maru	411	89	156		0	1/8	D (1)		Kintang.	- <i></i> 	435	25	149 x 2	7 		O/F	s	ex-British;	captured,
Kampar	574	30	135 x 29		м	8	ex-Dutch; i	nachinery	Kingan M	faru	295	35	120 x 24	4		м	8	Government	recutisi-
Kanesugi Maru #3	225	39	98 x 25		М	w						ere.	র্জি প্ল				~	tion.	i quar
		·					i		- خطوشين										17

SMALL CRA	FT :	IND	ex	` ~		FREIGHTERS	-Continued			. '				
Name	Gross tons	Year built	Dimensions (it.) Speed	Pro- pril- sion	Mater iale	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Kiri Maru	415	32	145 x 26	M	S	Government requisi-	Kongo Maru	268	11	121 x 25			s	
Kiri Maru	324	35	130 x 23	м	s	Government requisi-	Konin Maru Korei Maru	250 540	91 39	$118 \ge 20$ 160 $\ge 28 \ge 13$ (L)	11 (L)	M	8 8	XYN.
Kiri Maru:						tion; machinery alt.	Korm Morn	693	40	167 - 97	14 (E)		a	Transport: government
#2	333	35	130 x 23	М	s	AK 1012; machinery		020		107 x 21	10. 5			requisition.
#3	495	36	166 x 26	м	s	Government requisi-	Kosan Maru Kosei Maru	277 864	34 39	120×23 $185 \times 31 \times 6.0 (E)$	9 12.5(E)	М	8	XAM.
44	005		196 - 09	м	a	tion.				15.5 (L)	11 (L)	\mathbf{M}	8	Government requisi-
#o #8	330 939	37	206 x 30 x 15 11.5	M	ŝ	AK; machinery aft.	Kosei Maru	234	40	96. 5 x 24.5		М	w	
Kisaragi Maru	495	35	165 x 27 x 12.5	М	S	Machinery aft.	Kosho Maru	330	39	130 x 24		\mathbf{M}	8	Government requisi-
Kiso Maru	703	32	170 x 30 x 13 11	м	8	tion machinery; ma-	Koshu Maru	226	34	110 x 20			s	
Kine Mem	554	20	159 - 99 - 19 9	м	q	chinery aft.	Koshu Maru #1	279	39	120 x 23	10	M	8	
Kisogawa Maru	367	87	140 x 28		Ĩ	AR 200, machinery art.	Kotobuki Maru	200	39	95. 5 X 25.5		м	vv	
Klias Koa Maru	207	27	126 x 23	С	8	ex-British; scuttled, 1942.	#2	326	35	125 x 23		м	s	Government requisi-
#2	351 376	39 39	120 x 28 120 x 27	M M	8 8	XYN. Government requisi-	#5	720	39	180 x 28 x 6.5 (E)	7	С	8	tion. XYN.
T M = #0.00						tion.	Koun Marn	753	18	14.3 (L). 187 x 31 5	10		w	
Koa Maru #2 GO	572 199	38	98 x 24	М	W	XIN.	Koun Maru	217	39	96 x 25		M	ŵ	
Koei Maru	200 753	37	108 x 20.	M	W	AK	Kow Chow	310	09	155		С	8	ex-British; presumed scuttled.
Kofuku Maru #2	969	18	190 x 31 x 16.5	č	ŝ	AK.	Kozan Maru #2	864	. 19	194 x 29 x 12.3(E)	9 (E)	С	W	May be known as Kagu
Kogi Maru	857	40	185 X 31 X 15.5 11	м	8	XAM.	Kojo Maru	370	13	130 x 24	8(L) 7.5		ŝ	Maru #2.
Kokai Maru	540	39	160 x 27.6 11 or	м	s	XYN; machinery aft.	Koju Maru	331	17	114 x 25		Ç C	W	Schooner.
Kokko Maru	199	34	10.5 97 x 24	м	w	Schooner.	Koju Maru #6	369	19	129 x 28		(aux.)	w	Schooner.
Kokoku Maru	544	40	160 x 28 x 13 11.5 or			AK 1005; may be known	Kuang Hsiang	653	12	147 x 27		aux.) C	8	ex-Chinese: captured
Kokuko Maru	716	38	10 170 x 28 x 13.5 9.5	м	8	as Kokku Maru. XYN; may be known as Kokko Maru.					,	Ū	ĩ	previous to March 1939 and renamed
Kokwa Maru	296	40	162 x 28	C	S		Kudamatsu Maru	295	36	125 x 22	9.5	м	s	Government requisi-
Kolambugan Konan Maru	690 994	29 18	181 x 30 190 x 31,5 x 5.0(E)	м С	8	ex-U.S.; machinery aft. May be known as	Kureha Maru #3	416	36	130 x 26	9		8	tion. Government requisi-
			16.5 (L).			Konan Maru #11; government requisi-	Kurogane Maru	988	26	210 x 30 x 7 (E).	12(E)			tion. Machinery aft; 3-is-
Kongo Maru	270	34	120 x 23	м	8	tion.				16 (L)	9.5(L)			land; government requisition.
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ONI 208-J-SUPPLEMENT 2

Division of Naval Intelligence

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FREIGHTERS-Continued

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SMALL CRAFT INDEX

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Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks		Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion s	Aater- ia <u>15</u>	Remarks
Kwong Foon	611	22	154 x 28		м	8	ex-Chinese.	1	Makian	537	28	165 x 29		м	8	ex Dutch; machinery
Kwong Ying	685	14	151 x 28		С	8	ex-Chinese.		Malacca	210	27	110 x 22		С	8	alt. ex-British demaged
Kyodo Maru #11 Kyojin Maru:	372	09	141 x 21		С	8			Mampawa	468	28	165 x 29		M	s	and scuttled, 1942. ex-Dutch; machinery
# 1	425	37	135 x 26		M	ន	May be known as Kcijin Maru #1; gov-		Man Hing	839	19 21	163 x 31		M	W	aft. ex-Portuguese.
#2	433	37	135 x 26		М	8	May be known as Keijin Maru #2;		Manda Maru	248 212	00	120 124 x 24		Ö	ŝ	Sloop; government req- uisition.
T 0		~-	10.5 0.0			a	XAM,		Mandar	536	29	165 x 29		м	8	ex-Dutch; machinery
# 3	433	37	136 X 26		м	в	Keijin Maru #3;		Manipi	536	29	165 x 29	•••···	М	8	ex-Dutch; machinery
#5	433	37	135 x 26 x 3.5		М	s	May be known as Keijin Maru #5; XAM.		Mapia	550	29	165 x 29	15	М	s	ex-Dutch; machinery aft; attacked by Jap- anese, 1942; reported
#8	266	40	98 x 25		м	w										raised and recom-
Kyokuto Maru	361	17	127 x 27 x 13.6		C (9117)	w	3-mast auxiliary		Margaret	248	29	110 x 25		м	8	ex-British; machinery
Kyosei Maru	556	38	150 x 28 x 5.0 (E) 12.5 (L)	10.5(E) 8.5(L)	M	s	Machinery aft; gov- ernment requisition.		Maros	550	29	165 x 29		м	8	ex-Dutch; machinery
Kyowa Maru Kyushu Maru	388 632	18 36	85 x 22 x 10.5 170 x 28 x 6.5 (E)	11 (E)	c	ន	Reported as inactive. Machinery aft.		Masbate	742	95	180 x 28		O	ន	ex-Panamanian, oper- ating under Portu-
La Estrella Caltex	495	31	14 (L) 145 x 28	9 (L)	м	s	ex-U. S.; machinery		Matsu Maru	683	28	176 x 27 x 14.5	10 (E)	σ	8	guese flag. AK 167; machinery aft.
Lai Hsing	573	01	172 x 26		С	s	ex-Chinese.		Matsu Maru	415	32	(L). 145 x 26		м	8	Machinery aft.
Lake Cask	349	28	157 x 28		м	w	ex-British.	1	Matsu Maru	217	23	140 x 26		C	s	
Leyte	854	79	210 x 29		o	I	ex-U. S.; machinery	1	Matsu-Ura Maru	228	22	120 x 18		Ø	s	
					~	~	aft.	1	Matsuyama Maru	423	12	149 x 22 x 14	9	С	s	AK.
Li Wo	707	38	164 x 30		0	ы	ex-British; Yangtze	1	Mekong	746	94	210 x 28		С	8	ex-French.
•							tanks.		Mercedes	238	18	115 x 26 x 10.8		, М	W	ex-U. S. schooner.
Ling Kong	850	23	180 x 34	•••••	o	S	ex-British; also re- ported as pilot boat.		Merkus	865	37	188 x 33		(aux.) M	s	ex-Dutch; machinery
Lu Kiang Majang	416 536	08 28	137 x 22 165 x 29		О 0/F	ទទ	ex-Chinese. ex-Dutch; machinery		Mikado Maru Mikage Maru #2	398 617	40 35	131 x 24 170 x 28 x 13.5	12 (E)	M M	ទទ	AK 1024. AK 169.
							anese, 1942.		Milo	322	19	(L). 136 x 25		м	8	ex-Dutch: machinery
Makasser	537	28	. 165 x 29				ex-Dutch; machinery aft; attacked by Jap-	-1	Ming Tsu	939	28			8	M	aft; scuttled, 1942. ex-Chinese; Yangtze
			·				anese, 1942.	ļ	<u>BEGLA</u>		1 1 1 1	and a second	معسسا			River Service.

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SMALL CRA	FT 1	IND	EX my	<i>6</i> 3		•		FREIGHTER	SContinued							
Name	Gross tons	Year built	Dimensio		Speed. (ktb)	Pro pul- sion	Mater jal	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	. Remarks
Minjak	966	37	204 x 34.			м	8	ex-Dutch; 3-island;	Nissho Maru:							**************************************
Mishima Maru	235	32	115 x 22.			С	s	Government requisi-	#2 #3	344 676	04 28	146 x 22 180x 27x 14.5(L)	9.5	co	8	XYN-AK.
Mito Maru	327	34	119		8	М	s	Government requisi-	#5	782	35	6.0 (E) $181 \times 31 \times 14.5 (L)$	9	м	s	XYN-AK.
Mitsu Maru #3	404	37	140 x 24				ន	AK 1036.	#6	642	90	9.0 (E) 185x30x14.5(L)	8.5	С	s	AK.
Mitsumine Maru Miyakawa Maru	996 200	18 40	194 x 31 x 3 91 x 25.5	16(L).	8.5(L)	M	w	AK.	#11	317	18	0.5 (E) 114 x 25		C	w	Schooner.
Miyo Maru	335	37	136 x 23.			м	8	XAM; may be known	#15	375	38	140 x 24		(aux.) M	W/S	AK 1033.
Momo Maru	443	35	149 x 26		9	М	s	AK 203.	Niticho Maru	549	21	160 x 26 x 14 (L)	9	С	8	May be known as
Motoyama Maru #1.	371	36	130 x 24		8	М	8	AK 229; may be known as Genzan Maru #1.	Nitiki Maru	309	40	8 (E) 121 x 23		М	8	Government requisi-
Munakata Maru Muneyoshi Maru	394 326	93 17	154 x 21 123 x 26		 	M C (aux.)	s w	AK 1010. 3-mast schooner.	Nitto Maru Nuestra Senora De La	471 247	14 25	150 x 22 x 14.5 126 x 24		C O/F	8 S	tion. ex-U. S.
Musashino Maru	311	35	136 x 27			M	s	Machinery aft; may be known as Shoun	Nuestra Senora Del Rosario	430	29	168 x 28	 .	O/F	8	ex-U. S.
Mutsu-Ura Maru	467	18	138 x 29			M	w	Maru. 3-mast schooner.	Nyounghla	382	09	160 x 31		С	s	Machinery aft; scut- tled, 1942.
Naga	624	29	155 x 35 _			(aux.) M	8	ex-U. S.; #2205; ma- chinery aft.	Ogi Maru Oha Maru	200 990	34 28	112 x 21 220 x 34 x 15 (L)	9 9	M O/F	8 8	AK 153. AK.
Nagara Maru	856	40	185x31x13 6.2 (E)	5.5(L)	11	М	ន	XYN or AK.	Oi Maru	396	39	6 (E) 142 x 25		м	8	XAM; machinery aft.
Nagata Maru	479	34	162 x 28			М	8		Okinoyama Maru	200 984	40 17	95 x 25.5 199x31x13.2(L)	8 (L)	м С	w S	AK 657.
Nanka Maru Nanning Nantaku Maru	569 330	24 00 32	125 x 20. 147 x 31 130 x 23		11	C M	888	ex-Chinese; paddle. XAK.	Oshima Maru	970	35	6.6 (E) 217 x 34 x 12.7 (L) 5 2 (E)	9(E) 7	М	8	Machinery aft.
Nanzan Maru Naris	462 799	10 29	161 x 31 166 x 35			C O/F	8 8	Siamese.	Otome Maru	199	38	99 x 25		М	s/w.	e
Nibha Nichesen Maru #5	512 432	24 39	175 x 29 136 x 26			M	8	Siamese.	P A hoitiz	395 321	28	140 134 y 27		м	8 S	ет-П 8
Nilla Ninghsiang Nissen Maru	208 359 299	08 03 35	123 x 23 147 x 21 120 x 23.5			C C M	s W	ex-British. ex-Chinese; sloop.	Pakpanang Palawan Paloh	310 562 452	35 27 20	141 x 27 171 x 29 157 x 30	12.5	M M M	8 8 8	Siamese; machinery aft. ex-U. S.; machinery aft. ex-Dutch; machinery
#2 #3	410 412	38 38	136 x 24 136 x 24			M M	2222	Machinery aft.	Pathfinder	258	31	105 x 23		С	8	tled, 1942. ex-British.
#ð	432	39	130 X 24.		10. 5		8	AR 201.	Pai Ching	441	11	125 - 94			a	aft.
#1#1	267	29	125 x 23			м	s		Pei Hai	441 749	90	200 x 30		č	8	ex-Chinese.
#2	349	30	140 x 24.		**	· •	Ś,	the second second	Pei Ming	667	22	152 x 27		С	8	ex-Chinese.
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FREIGHTERS—Continued

SMALL CRAFT INDEX

						_		1	1.6		_
Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- . pul- sion	Mater- ial	Remarks	Name	Gross Tais	Year borilt	ן
Pelikan	781	94	194 x 32		ç	8	ex-German.	Sainam	588	00	
Phoue Kien Poseidon	318 696	81 14	125 x 20 136 x 20 185 x 30		с м	Î S	ex-French. ex-Dutch; machinery	Sakaye Maru #7	540 267	38 37	1
Prachatipok	968 409	09 30	201 x 30		С М	8	Siamese. ex-U. S.	Sakigake Maru #2	237	12	
Princess of Cebu	415	31	155 x 30		M	š	ex-U. S.	Sakki Maru			
Princess of Negros	522	33	184 x 31		М	s	ex-U. S.; captured by	Sakura Maru	233	28	2
Pulau Kidjang	229 200	36	114 x 26		M	S	Japanese, 1942. ex-British. ex-British: reported	San Carlos	2 2 1	31]
Ranman	200	20	120 A 20		0/1	Б	sunk, 1942.	San Ning	776	16	1
Rasa	217	33	117 x 23		М	8	ex-British; carries palm oil in bulk.	San Peh	700	30	
Redang	531	01	165 x 27		O/F	s	Siamese; machinery	Sanko Maru	636	19	1
Relau	223	38	120 x 25		м	s	ait. ex-British; machinery	Santa Terisita	209	12 30	1
Rengat	512	25	164 x 30		С	8	ex-Dutch.	Sanwa Maru	547	34	3
Reteh	513	26	164 x 30		c	S	ex-Dutch.	1	501		
Rimau	214	35	118 x 24		м	в	aft; carries palm oil in bulk; captured by	Sanyu Maru	531 417	34 10	1
							Japanese, 1942.				
Rizal	576	30	171 x 29		M	S	ex-U. S.	Sapataya Maru	369	22	-
Robert O.	279	31	129 165 y 20		M	a a	ex-U. S.	Balsuki Maru	004	90	
Itoron	000	20	100 A 20		101	Ð	aft.				
Rose Blanche	323	24	138 x 20	13	\mathbf{c}	s	ex-French.	Gamba Mami	418	07	
Ryoyu Maru:							See Yoshitomo Maru	Sawba Maru	415	31	-
#10							#16.	Scot I	274	06	1
#21							See Yoshitomo Maru	Scott Harley	620 367	13 07]
#22				•••••			See Yoshitomo Maru	Seihe Maru	254	13	1
#23							See Yoshitomo Maru	Seikai Maru	216	36	j
#2 6							See Yoshitomo Maru	Seiko Maru	708	38	ļ
#27				 -			See Yoshitomo Maru	Seiko Maru	242	35	
Buine Marii	457	19	151			w	#21.	Belwa Maru #2	DA3	09 OL	
Saidaing	266	19	135 x 24		C	s	ex-British; launch; scuttled, 1942.	Seizan Maru	955	18	
Sai On Saiko Maru	445 279	98 29	146 x 27 130 x 26		CC	ន	Machinery aft.	Sekino Maru	998	18	

ntinued	1			SI	MAL	LC	RAFT INDEX
		4 80 4 60 7 60			tin	<u>,</u>	
Name	Cross	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
nam	588	00	147 x 31		С	8	ex-Chinese; paddle.
ae Maru	540	38	150 x 27	12	М	s	Machinery aft.
aye Maru #7	267	37	97 x 25		М	w	May be known as Sakae Maru #7.
igake Maru #2	237	12	114 x 22		С	8	Government requisi-
ki Maru							See Satsuki Maru.
ura Maru	233	28	105×25		С	8	
Carlos	201	21	125 v 96		м	ä	or II 9 coiling workels
Nin-	770	10	100 x 20		(aux.)	6	twin screw.
Ning	770	10	103 X 28				ex-Chinese,
Peh	700	30					ex-Chinese; Yangtze River Service.
ko Maru	636	19	160 x 29 x 13 (L)	8		s	Machinery aft.
ishin Maru	209	12	110 x 22		s		
ita Terisita	222	30	120 x 24		M	8	ex-U. S.; machinery aft.
wa Maru	547	34	155 x 28 x 12.5 (L).	8	M	8	AK 1026.
iyu Maru	531	34	155 x 28	. 8 or 10 (L)	M	s	A K 531; machinery aft.
zan Maru	417	10	160 x 30		C or O/F	s	
ataya Maru	369	22	148 x 25		c	W	Siamese.
suki Maru	354	35	130 x 26 x 11	. 14	м	8	Machinery aft; may be known as Sakki Maru; government requisition.
vba Maru	415	37	200		o	s	ex-British; paddle; pre- sumed scuttled.
t I	274	06	148 (oa) x 25		С	s	ex-British.
tt Harley	620	13	185 x 31		Q	8	ex-British.
un Maru	367	07	146		s	С	May be known as Sen- Un Maru.
na Maru	254	13	125		M	W	Schooner.
cai Maru	216	36	110 x 21		M	W or S	·
co Maru	708	38	170 x 28 x 13.5 (L).	. 10	м	8	XYN.
co maru	370	17	142 X 23		<u>o</u>	w	
ko Maru	242	35	117 x 21 x 11	10 or 8	M	ន	
wa Maru #2	593	09 or 99	6.5 (E)	7 (L) 8.5 (E)	C	8	Machinery aft.
аш 1 /18ru	955	18	190 X 31 X 16 (L) 7 5 (E)	10			AK.
Ing Maru	998	18	195 x 32 x 16 (L). 5 (E).	. 10 (E)	σ	8	

SMALL CRAFT INDEX . FREIGHTERS—Continued 10.000 Gross Areas, Dimensions Wt.) . (kts.) Pro-Pro-Mater-Gross Year Dimensions (ft.) Mater-Speed pul-Remarks Name Name -lua Remarks ial tons built (kts.) ial sion ŝion A 55 Senvu Maru: Shinwa Maru #3 288 39 121 x 23..... M 8 Government requisi-800 34 120 x 23 #2_____ 301 M XAM. tion XAM; machinery aft. Shirogane Maru #2..... 327 36 120 x 23 237 39 98 x 25 w #3 16 M 370 37 125 x 24 16 M #1034. #5_____ Shirogane Maru: Sesshu Maru 406 27 132 x 22 С s #2_____ See Hakugin Maru #2. --------- ----Ŵ 847 č Shing Cheong 15 169 x 30 39 98 x 25 #3_____ 236 Μ Shou Chong č ŝ Chinese 622 25 37 112 x 25 ŵ #12_____ 323 M Ex-Kaiun Maru #2: Ň ex-British: machinery Shrivati Maru 389 21 133 x 25 8 may be lost. aft. Shofuku Maru 680 16 181 x 30 x 11 С w AK. Shwelan 438 17 232 ex-British: paddle: preč Shofuku Maru #2 729 37 183 x 29 x 14.9 ğ 8 ĂK. sumed scuttled. Shokiku Maru 463 13 163 or 114 x 23... ĝ. ŝ ex-British: paddle: pre-22 233 C Shwemyo_____ 460 Shokyu Maru 417 č ã 12 155 x 22 x 11 Government requisisumed scuttled. tion. Shigehisa Maru #1 119 x 18..... 208 37 M 40 109 x 27 Shoten Maru #2 Shigenobugawa Maru. 496 18 138 x 30_____ M w 3-mast schooner. 296 м W May be known as Shoten Marn. (aux.) 27 150 x 28..... 8 May be known as Shi-Shotoku Maru 284 34 120 x 23 M я Shimohusa Maru 269 moosa Maru. Shuko Maru 889 40 185 x 31 x 15.5 10 (L) s Shimoosa Maru (L). Shinchiku Maru 499 01 141 x 33 s Shoun Maru #6 287 36 125 x 22 м ã 06 143 x 20.... 18 196 x 31 x 16 (L). 8 Shine Maru 408 Shova Maru See Ushio Maru. --------958 ŏ ŝ AK. Shinei Maru #3 Shunsen Maru 20 194 x 31 x 16.5 O 3-island: may be known 4.9 (E) 971 9 8 (\mathbf{L}) . as Harukawa Maru: w Machinery aft: cutter: Shingu Maru 200 39 XYN. ex-Houn Maru: may Shunyo Maru #2..... 664 18 171 x 28 x 15.5 7 0 w AK. be known as Atat-(L). suki Maru. Shunzan Maru #2 608 34 163 x 28 x 13.5 9.5 8 AK. Μ 90 161 x 27 x 13.... C Shingyo Maru 528 čĽ (L). Shinho Maru See Shinpo Maru #8. 185 x 31 C 8 ex-Dutch. Singkel. 615 18 38 205 x 30 x 15.5(L) 10 (L) M Shinko Maru #1 GO ... 934 S XPG 144. -----27 110 x 22 Sin Kheng Seng 200O/F8 ex-British. 5.3 (E) 12.5(E) 26 121 x 23 ă Siushan С 296 Ń ex-British. Shinko Maru #2 353 123 x 26 w Schooner. 18 Sobiraki Maru: (aux.) w Shinkochi Maru 19 114 x 19..... 226 W 213 #8_____ 39 113 x 24 40 113 x 24 Ŵ Shinkochi Maru: #12_____ 230 м #2_____ 39 120 x 20 Soko Maru 328 159 x 28 м w Wood aux. 260 129 x 24 353 18 w ex-Juho Maru #2. (aux.) #3..... Shinpo Maru 125 x 22 09 155_____ ex-British: presumed 295 36 M s XAM: transport. Soochow 310 8 С 220 ŵ May be known as Shinscuttled Shinpo Maru #8 39 Soshin Maru..... 202 04 110 w Sloop. ho Maru. ex-British. Shinrei Maru 987 18 190 x 31 x 16 (L) С 8 AK. Storm Waif..... 20720 118 x 24 м W

Sugi Maru

Sugi Maru

Suiting. Sumida Maru.....

Sumiyoshi Maru.....

443

195

295 546

481

35

28

 $\overline{26}$

38

149 x 27...... 9.5

130 x 24.....

121.....

150 x 27 x 12.9

(L). 35 162 x 28..... M

C S

й

M

10 M 8

8

я

AK-145.

AK 1209.

AK 1019.

Shinryu Maru

Shinto Maru: #2_____

#3_____

169 x 23..... 8

38 160 x 28 x 12.9 (L). 10.5

38 150 x 28 x 12.9 (L). 10

* 34 130 x 24 10.5

C

M

м

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ā

S AK.

Ketch.

AK 529: machinery aft.

XYN: machinery aft.

482 96

540

ONI 208-J-SUPPLEMENT 2 • (Division of Naval Intelligence

FREIGHTERS—Continued

SMALL CRAFT INDEX

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gross	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater ial	Remarks
Tachibana Maru Tai Pat	392 261	23 14	145 x 24 105 x 20		CC	8	ex-British; may be	Tatsu Maru	501	39	144 x 28 x 12.5 (L).	9(L) 5(E)	М	s	XYN-AK.
Taihei Maru	602	17	- 144 x 34		M (aux.)	ន	4-mast barkentine; gov-	Tatsu Maru	305	34	120 x 23 x 11.5	J (E)	M	Sw	or British schooner
Taiko Maru #1 Taimei Maru	493 989	91 18	174 x 22. 190 x 31 x 16 (L).	8(L)	C C C	I S	AK 371.	Teh Chun Teli Teli	407 697	94 90	165 x 20 176 x 27 176 x 27		C C M	899	ex-Chinese sloop. ex-Chinese.
Taisei Maru Taisei Maru	407 228 605	40 32	132 x 28.5 120 x 21	9 (L9)	M M	W S W	XAM.	Tenryu Maru	495 555	39	158 x 28 x 12 (L). 6.3 (E)	9 (L)	M	222	AK 1015; machinery aft.
1 aisno Maru #1	000	17	(L).	8.0(L) 0(TE)	U	٧¥		Tenshin Maru	256 206	38 34	127 x 23		M	8	Schooner; government
Taito Maru	267	32	130 x 23 x 10	or 9.5	М	s	XAM.	Tidore	872	29	189 x 34		(aux.) M	8	requisition. ex-Dutch; machinery aft: attacked by
Taiun Maru:	009	11	$210 \times 20 \times 16 (T_{\rm s})$	Θ (T.)	C	a	AK: may be known og	Tin Song	308	04	120 - 24		C	g	Japanese, 1942.
#4	800	11	6.5 (E)	9 (E)	U	5	Daiun Maru #2.	Tinley	420		138		ö	Comp.	ex-British: lighter?
#6	601	12	167 x 27 x 13 (L) 5.3 (E)	9 (E)	С	s	AK; sloop; may be known as Daiun	Tiong	243	23	120		O/F	s	ex-British; machinery aft.
Takachiho Maru Takashima Maru Takashima Maru:	343 494	37 30	130 x 23 x 12 150 x 27	9 9	M C	55 55	XAM-AK Machine ry aft.	Tobelo	983	29	203 x 34		м	ន	ex-Dutch; machinery aft; attacked by Japanese, 1942.
#5 #6	285 285	34 35	120 x 23 120 x 23	. 8	M M	8 8	AK 593. Government requisi- tion.	1.000000	894	49	203 X 34		IVI	6	aft; attacked by Japanese, 1942; prob- ably salvaged
Takatori Maru	278	34	120 x 23 x 11.5	8	м	s	AK 495.	Toei Maru	626	18	176 x 29	7	σ	w	and barragea
Takunan Maru	751	39	177 x 28	10	М	8	AK; machinery aft; transport; govern- ment requisition.	Togian	979	30	203 x 34	•••••	м	8	ex-Dutch; attacked by Japanese submarine, 1942
Talifoo	973	14	260		o	8	ex-British; paddle; pre- sumed scuttled.	Tohiti	982	29	203 x 3 4		м	8	ex-Dutch; machinery
Tama Maru	397	39	145 x 25	•••••	м	8	XAM; machinery aft; government requisi- tion.	Toho Maru #5 Tokai Maru	210 300	40 39	98 x 25.5 130 x 24		M M	W S	Machinery aft.
Tamagawa Maru	686	18	179 x 29	6	-	w	AK.	Tokai Maru #3	431	01	150			~	
Tamanami Maru	282	99	130 x 28			8	· · · · ·	Tokinime Maru	741	35	$180 \times 38 \times 13.4$	5 10	0 0	8	Machinery aft.
Tango Maru #2	409	17	143 x 24		CW		ez-Heian Maru #9.	Tokiwa Maru	226	18	102 x 23		м	w	
Tapah Taping	208 597	26 07	126 x 23 253		O/F C	8 8	ex-British. ex-British; paddle; pre-	🚁 . Toko Maru #1 G O –	722	88	170 x 28.6 x 13.5 (L).	10 (L)	М	s	XYN; may be known as Toko Maru #1.
Tarumi Maru	729	21	177 x 29 x 14.5	9 (L)	С	8	XAK.	Tokuho Maru:	÷.	•	6.0 (E)	11 (E)	·		
, i			9.9 (E)	10.5 (E)				#6	266	34	96 x 24		M (aux.)	s	Schooner.

Name	Gross tons	Year built	Dimensions (ff.)	Speed (kts.)	Pro- pul- sion	Mater	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Tokuho Maru—Con.								Unkai Maru-Con.	745		180 - 20 - 6 2/T)	6		a	A 17 492: machine att
#7	267	34	97.6 x 24		M	8	Schooner.	#13	740	24	13.0(E).	90r 8	U	0	AK 405; machinery art.
#10	353	35	125 x 24	8. 5	(aux.) M	8	Government requisi-	Unyu Maru	487	37	162 x 27		м	8 W	Machinery aft; govern- ment requisition.
Tokushun Maru #1	251	09	130 x 27			8		UTAKAZE MATU	200	14	124		U	vv	tion.
Tokuyama Maru	297	30	130 x 24		м	8	Machinery aft.	Urara Maru	408	34	151 x 26		м	8	Minelayer.
Tomori	983 538	29 39	203 x 34	10.5	м м	8 8	ex-Dutch; machinery aft; scuttled, 1942. Government requisi-	Oshio Mara	740	11	104	0	U	0	requisition; may be known as Showa
100000000000000000000000000000000000000			(L).	(E)		ĩ	tion.	Vordun	324	18	131 * 95		0	я	Maru. Ar-French
Tora Maru #1	428	36	5.3 (E) 150 x 28	10 (L) 13	м	8	Machinery aft.	Victoria	228	01	130 x 25		ŏ	ลั	Siamese: submarine
Toradja	981		203 x 34		м	ŝ	ex-Dutch; machinery	Wede More #99	050	20	108 - 08		м	337	signalling apparatus.
					~	~	aft.	Wala Maru #20 Wahai Maru	206	09 11	108 x 20		0	8	May be known as
Toral Maru	643	22	175 X 28 X 14.5 (L). 7 5 (E)	10 (L) 11 (E)	0	8	3-island; government requisition.	Wakamatsu Maru:		11			Ŭ	2	Wahei Maru #6.
Tosei Maru:				11 (13)				#1	232	31	125 x 23		М	្ត្	Machinery aft.
#1	543	40	150 x 39		м	8	Government requisi-	#2	232	31	125 x 23	10 0 or 10	M	8	AK 221. XVN: machinery eff
#3	360	36	135 x 23			8	Government requisi- tion.	Wanhsien	868	37 22	204 x 33		O/F	8	ex-Chinese; Yangtze River Service.
Toshin Maru	200	36	105 x 21	8.5	м	8	Machinery aft.	Wanhu Maru	333 271	17	136	·····	M	8	YAM
Toshun Maru	273	13	132 x 22		\mathbf{c}	s	Government requisi-	Yamato Maru #3	534	36	147 x 25 x 12	8.5	M	š	Government requisi-
Toyo Maru Toyo Maru #1	334 409	36 39	136 x 22 137 x 24	•	M M	8		Yanawai	434	37	159 (0a) x 28		м	8	tion. ex-British; machinery
Trang	205	12	111 x 22		ç	8	ex-British.	Yashima Maru	946	15				8	To be renamed Miya-
Tsing Fat Tso-Kwang	329 311	21 27	120 x 22 145		С М	ลื่อ	ex-Chinese. Barge.	Yasuta Maru #8	261	38	106 x 26		м	S or W	jima Maru.
Tsubaki GO	526 000	00 27	225 x 33 5	ğ	<u> </u>	8	Machinery aft.	Yayoi Maru	496	35	165 x 27 x 12.5	12	м	8	Machinery aft.
Tung Hai	355	04	127		č	Ŵ	ex-Chinese.	Ying Chun	414	94 13	165 x 20		ŏ	8	Chinese sloop.
Tung On	463 559	06 15	150 x 29		č	8	Siamese. Siamese.	Yoneyama Maru	584	20	171 x 26 x 13.5	8	Č	8	Government requisi-
Tsuruga Maru Uji Maru	301 872	38 40	109 x 24. 185 x 31	10	М М	w s	XYN.	Yorihime Maru Yoshi Maru #3	526 200	35 40	155 x 28 x 12 94 x 23	9	M M	s w	AK 205; machinery aft.
Ukushima Maru Ume Maru	521 415	22 32	145 x 26		м	8	Government requisi-	Yoshitomo Maru: #11	261	31	120 x 22 x 10		М	8	16 ha har
Unkai Maru:							viel, inconnecty inte	#16	323	30	120 X 23		м	8	Ryovu Maru #16.
#10	855	39	185 x 31 x 5.5(L) 15.5(E).	9 or 10	o	8	XPG #32; gunboat.	#21	389	37	136 x 24		М	8	May be known as Ryoyu Maru #21.
24															

ONI 208-J-SUPPLEMENT 2 .

Division of Naval Intelligence

FREIGHTERS-Continued

A CANCEL			SMALL (CRAFT INDEX
TANKERS (is	icludes nav	al sonversion	AAO	
			11 - 1 - 1 M	
Name	Gross Yea tons buil	Dimensions (ft.) Speed pul- (kts.) sion ial	Remarks

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater ial	Remarks
Yoshitomo Maru—								Asiatica	318	09	175		м	8	ex-British; barge.
#22	392	38	136 x 24	10		8	A K 623 may be known	Chidori Maru	130	12	85 x 18	7		8	XAO 415; sloop.
×	002		100 # 21	10		5	as Ryoyu Maru #22.	Fukuel Maru #12	200	37	120 x 22 x 8	10.5	M	8	XAO; machinery aft.
#23 #20	393 449	38 38	136 x 24 142 x 24	10 	M M	8 8	AK 739. AK 695; may be known	Hadachi	999	30	281 X 33 X 10	or 11	м	8	MAO; machinery ait; may be known as Hanedati Maru
#27	449	39	142 x 24	10	М	8	AK 695; may be known as Ryoyu Maru #26.	Halaban Maru	682	97	186 x 26 x 10.2	8 o r 10.5	O/F	s	XAO; machinery aft; may be known as
Yoshiura Maru	541	11	169 x 26.5 x 15	8.5	o	8		Hinode Maru	321	30	145 x 98		м	g	Haraban Maru. Machinery aft: lighter
Yoshu Maru	499	13	171 x 22 x 15	8.5	C M	8	Machinen of	Hishi Maru	492	31	159 x 27		M	ğ	Machinery off: gov.
Yoji Maru	490	30	100 x 2/		IVI	0 0	waequery att.		102		100 X 21		1.42	D D	ernment requisition.
Yuot Shang	410	10	100 x 29		м	w	or Chinese b	Hishi Maru #2	857	36	190 x 33 x 14	11	м	s	XAO.
Vumibari Maru	977	94	201 x 30 x 14	8	Ő	g	Reported wrecked	Horel Maru	658	20	182 X 28 185 x 30 x 14 5	05	ğ	20	Machinery aft.
	011		221 A 02 X 11	Ŭ	Ū	5	1940; believed sal- vaged and in com-	Juko Maru	478	38	156 x 25		м	8	ex-Kamikaze Maru;
Yung Hung	556	25			М	8	ex-Italian; Yangtze River Service.	Kila t	221	30	126 x 24		м	8	ernment requisition. ex-Dutch; scuttled 1942.
Yung Kia	883	03	203 x 37		c	8	ex-Chinese; sloop; seized by Japanese, 1937.	Koan Maru Koryu Maru Koshin Maru.	885 974 075	37 44	187 x 30 x 14.5 210 x 33.5 x 15.5_ 210 x 22 5 = 15 5		C C C	333	XAO; machinery aft. Standard Type TS.
Yung Lee	632	06	171 x 24	•-•	0	s	ex-Chinese.	Koshin Maru	420	39	142 x 26	9.5	й	ŝ	Stanuard Type 18.
Yung Shen	277	07	122 x 26		C	8	ex-British; may be known as Yung Shun.	Kotai Maru. Kulit	975 213	44 30	210 x 33.5 x 15.5 127 x 24	10	C M	88	Standard Type TS. ex-British; machinery
Yung Ting	311	99	115 x 21		С	8	ex-British.	Kwoei Marii	603	37	176 x 30 x 11/T.)	10(T.)	м	g	BIL. Machinery aft: govern.
Yung Wei	972	64	219 x 28		С	I	ex-Chinese.	Kyber Maru	000		5.3(E)	11.5(E)	1.1		ment requisition.
Yunghsing	832	15	185 x 31	·	σ	8	ex-Chinese.	Kyoei Maru							-
Yusei Maru	600	37	159 x 30		м	s		#3	1, 189	44	210 x 33.5 x 15.5.	10	Q	8	Standard Type TS.
Zamboanga	215	07	112 x 18		0	B	ex-U. S.; ex-Ebishu Maru.	#5 #6 #7	1, 186 1, 178 1, 160	44 44 44	210 x 33.5 x 15.5 210 x 33.5 x 15.5 210 x 33.5 x 15.5	10 10	Ö	888	Standard Type TS. Standard Type TS.
Zuho Maru #2	200	39	95		м	w	May be known as Juho Maru #2	Kyoryoku Maru	1 000	44	210 x 33 5 x 15 5	10	ŏ	s s	Standard Type 15.
Zuiho Maru	222	38	115 x 20	9. 5	М	w	Transport; also report- ed as fishing, govern-	Mei Foo	913	12					ex-U. SYangtze River Service.
Zuicha Manu	E94	20	1ER - 00 E - 10 E	100	м	a	ment requisition.	Mei Lu	305	26		.	м		ex-U. SYangtze River
Zuisho Maru	004	38	100 X 28.0 X 12.0_	10019	M	0 117	AIN. Deficientian machin ^{**}	Mai Man	264	10					Service.
Zaisho Maru	240	98	110 x 44	8. 0	IVI	vv	ery; also reported as	Nagata Marii #28	670	. 15	182 x 29 x 6.7 (E)	8 or	с	8	Service. XAO 763: machinery
Zuiun Maru	243	39	115 x 22	9	М	W	Refrigeration machin-		5 10	<u>ار</u>	13 (L)	9			aft.
							ery; also reported as fish transport.	Nonwa Miaru	40 5	26	72 X 16		м	ø	ery aft.
									J 85			j.			25

FISHING BOATS OVER 100 GROSS TONS

			1	. e											
Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater ial	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Nippon Maru:	_							Akebono Maru	111	06	91.3 x 18	9.5	с	8	Government requisi-
#5	140	31	90 x 19	8	M	S	XAO 241.	Amatomi Maru	109	07	92.3 x 18		σ	8	Whaler.
#11#15	195 486	36 37	105 x 22 150 x 29 x 12	8	M	s	XAU 163.	Aomori Maru	186	35	103.3 x 22	8.5	М	s	Refrigeration machin
Nonai Maru	374	29	139 x 10		м	s	Machinery aft.								ery; fishing regula- tion.
Pegasus Maru	224	31	121 x 22		м	8	Machinery aft; may be	Asakaze Maru	124	28	100 x 19	9.5	м	ន	
							known as Pegsasu Maru.	Ataka Maru	275	21	123 x 22	10	С	s	Government requisi-
Phasianella Maru	855	29	180		м	S	British; machinery aft;	Amikama Mami	100	95	119 - 90	0	0	a	tion; AM; trawler.
Ribot	237	30	127		м	s	British.	Ayukawa Malu	190	20	112 x 20		U	5	tion; whaler.
Seiko Maru	242	35	117 x 21 x11	10 or	м	s		Azuchi Maru	398	30	159 x 24	10. 5	М	8	Government requisi-
Seiko Maru #2	479	38	158 x 26	8	М	s	Government requisi-								port; also known as AF, 1942.
Shohei Maru	120	30	87 x 18	7	м	8	XAO 723.	Banshu Maru:							
Shonan Maru	1,029	44	210 x 33.5 x 15.5.	10	σ	S	Standard Type TS.	#5	390	33	135 x 25	8	м	8	Government requisi-
Shu Kwang	788	24	199 x 33 x 8.6		O/F	S	ex-British.								ing mother ship.
Sumatra	984	94	200 x 30.6			8	Sunk, salvaged, con-	#7	133	22	94.9		М	8	-
			1	-			verted to oil storage ship: British.	#9	125	22	95 x 17		M	8	Auxiliary sail.
Takasago Maru	1 , 116	44	210 x 33.5 x 15.5.	10	σ	8	Standard Type TS.	#12	188	29	111 x 20	â	м	8	ery; fish carrier; gov-
Takatori Maru:								#13	363	34	135 🗙 25	9	м	8	Machinery aft: cruiser
#1	879	28	$195 \times 31 \times 9.5$ (E)	× 10	σ	8	XAO-AK; machinery	#10	000		100 4 40		474	Ũ	stern; fish carrier;
#2	521	31	170 x 27 x 9.5 (E)	12 or	м	8	XÃO 813; machinery								refrigeration machin- ery; ex-#89.
#3	254	34	11 (L) 125 x 22 x 8.5	10 12	М	s	aft. Machinery aft; govern- ment requisition.	#15	363	34	135 x 25	9	м	8	Machinery aft; cruiser stern; refrigeration
Tembusu	344	39	136 x 29		М	S	ex-Dutch; machinery								also as #89.
Tokyo Maru	902	37	198 x 30 x 6.5		м	8	aft. XAO; machinery aft.	#16	122	22	95 x 16		M	8	Government requisi- tion.
Tosei Maru #2	507	40	(E), 14.5 (L).		м	8	Machinery aft.	#18	264	22	111.7 x 22	8.5	С	8	Refrigeration machin- erv: fish carrier
Unvu Maru #2	635	30	177 x 30 x 5.3	7	M	ŝ	XAO. AK 489.	#19	127	23	92 x 16		м	8	Refrigeration machin-
Wu Kiang	. 108	12	80 x 19		M	s	ex-British motor barge.								ery; fish carrier; govt. requisition.

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ONI 208-J-SUPPLEMENT 2 • C Division of Naval Intelligence

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FISHING BOATS OVER 100 GROSS TONS-Continued

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SMALL GRAFT INDEX

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Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- M pul- sion	Aater- íal	Remarks	Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Banshu Maru-Con.								Fumi Maru	360	38	139.4 x 25	13	м	w	Machinery aft; cruiser
#21	128	23	92 x 16		м	8	Refrigeration machin-	Fumi Maru:							stern; whater; APC.
#22	142	23	98 x 17		М	8	ery; fish carrier. Refrigeration machin- ery; fish carrier.	#2	304	39	130 x 25	******	O/F	S	Cruiser stern; whaler; government requisi-
#51 #52	234 234	21 21	122 x 23	_ 10 _ 9		8 S	Trawler; government requisition. Trawler; government	#3 Geiyo Maru	369 197	40 12	142 x 25.5 107 x 21	11 10	Ŏ	. 8 8	#633. Machinery aft; whaler;
#20	067	20	102 - 00	10	0	a	requisition.	Gentular Marri	190	20	<b>77</b> 19			337	XPC.
#00	207	40	140 X 44	. 10	U	6	ery aft; government	Gyotuku Maru	120	39	// X 18			**	<b>T</b> ( ) f
475	047	90	102 - 00	10	0	a	requisition.	Hagoromo Maru	312	20	123 x 22	10	U	8	XAM.
#30	. 207	20	120 X 22	. 10	0	а П	aft; government req- uisition.	#1 #2	$272 \\ 265$	$\frac{20}{20}$	123 123		0 C	ន	Trawler. Trawler; government
#06	267	20	123 X 22	. 10	0	8	ment requisition;	#3	265	20	123		с	s	requisition. Trawler; government
Chihaya Maru	219	20	118 x 22	. 9	O	8	Trawler; government requisition.	#6	263	22	123 x 2 <b>2</b>	8.5	С	s	Trawler; XAM; also
Chikushi Maru	220	20	118 x 22	. 10	O	8	Trawler; government requisition; also known as Tukusi Maru	#7	257	23	123 x 22	10	O	s	Maru #6. Trawler; XAM; also known as Haguro
Chishima Maru	123	13	95 x 18		С	W	Fishing.	Hakuho Maru	332	22	130 x 25	10	м	s	Fishing research.
Choei Maru #27	121	32	88 x 19			S		Hakuo Maru	135	38	98 x 20		м	s	
Daihakusan Maru	474	30 12	163 x 22	. 8	с	8	Trawler; government	Hakurei Maru	407	34	149.6 x 24	10	м	8	Trawler, Tpt.; gov- ernment requisition,
Ebon Maru	198	33	100 x 21			8	requisition, acten.							-	refrigeration machin-
Eifu Maru							Government requisi-	Hakuhun Maru #1	108	06	95.6 x 17	9.5	O	s	Whaler; government
Etorofu Maru	207	12	106.5 x 21	9.5	σ	8	Machinery aft; ketch whaler; government	Hatsutaka Maru Hayama Maru	287 219	25 19	127.9 x 23 118 x 22	11 10	0 0	8 8	requisition. Fish carrier. Trawler; government
Fukae Maru Fukkyu Maru #1 Fukuichi Maru #5 Fukushima Maru	160 152 150 109	98 18 33 04	105.5 x 21 98 x 18 93 x 19 94.8 x 18	9	C M C	1888 88	requisition. Ketch trawler. Fish carrier. Refrigeration machin- ery; sloop whaler;	Higashinippon Maru. Himegami Maru Himeshima Maru	. 143 199 . 274	38 34 27	98 x 19 104.9 x 22 130 x 23	9.5	M M O	8 8 8	requisition. XPP. Refrigeration machin- ery; government req- uisition. Trawler: ketch; gov-
Fukushin Maru	155	91	90 - 19		 M	<u>ö</u>	XPC.								ernment requisition; refrigeration machin-
Fukuyoshi Maru	139	31 38	83 x 18		141	w	Fukutoku Maru.	Himeji Marti Hinode Maru	472 140	33 31	168.5 x 25 95 x 20	10.5	M	8 8	ery. Trawler; AK.
-											and the	-		~	

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	pul- sion	Mater: ial	Remarks		Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Hinode Maru:	140		00 10						Kiku Maru	233	20	123 x 22 x 15.5	8.5	o	8	Trawler; government requisition.
#8 #12 #15	$     \begin{array}{r}       118 \\       220 \\       220     \end{array} $	39 20 20	90 x 18 120 120 x 22	<b>9</b> . 5	C C	W S B	Trawler. Trawler; govern requisition.	nment	Kinpo Maru #1	139	35	89 x 19		М	8	Small trawler-cargo ketch; may be known as Kinho Maru #10.
#16	234	20	123 x 22	<b>9</b> . 5	С	8	Trawler; govern requisition.	nment	Kitakami Maru	498	38	164 x 27	10	м	8	Trawler; Tpt.; govern-
#17 #18 #20	235 235 286	19 20 30	123 x 22 123 x 22 128 x 23 x 11.5	9 9.5 9.5		50 50 50	Trawler; XAM. Trawler; XAM. Trawler; XAM.		Kitami Maru	3 <b>9</b> 7	30	159 x 24	10	М	s	Trawler; government requisition.
Hishun Maru	318	29	135 x 24	11		s	Fishing regulation	on.	Kochi Maru	200	38	109		М	8	Fishing research.
Hiyoshi Maru #5	126	40	90 x 18			W	(has -1 - as X + ) (		Koei Maru #10	111 216	37	90 x 17	10		w g	Trawler XAM. also
Hoel Maru:	219	19	118 X 22	10	0	В	Trawler; AAM.		Rongo mara #2 GO	210	44	110 x 22	10	Ũ	5	known as Kongo Maru #2.
#3	104	02	92 x 18	9	С	s	Sloop; whaler; g	overn-	Kosei Maru							<b>.</b>
Hokkai Maru	408	34	149.6 x 24	10	м	s	Trawler; refrige	eration	Kotoshiro Maru #3	147	32	95 x 20		М	8	Government requisi- tion.
Hokkai Maru	200 234	05	119 x 18 x 11		ç	W	machinery; g ment requisition Sloop.	on.	Kurama Maru	233	21	123 x 22	8.5	С	8	Trawler; machinery aft; government re- quisition.
Horan Maria	490	10	120		v	w	requisition.	nment	Kushiro Maru	. 398	27	135.4	<b>.</b>	М	s	Trawler; refrigeration
Luzhime Mont	100	10	100 - 01		IVI NG	W G	S-masteu senoom	er.	V- 16							machinery.
Tzusminia Maru	192	33	100 x 21		M	0 7	Senooner.		Kyo Maru:						-	
Kalet Matu	199	04	105 x 22		141	ð	ery; governme	nt req-	#	340	37	133 x 27	12	0/1	8	XAM.
Kaiho Maru #2	121	31	88 x 19		м	s	Fish transport.		#2	340	38	133 x 27	12	O/F	8	Whaler; cruiser stern; XPC.
Kaiko Maru	233	21	123 x 22	10	С	s	Trawler; gover	mment	<b>#</b> 3	341	38	133 x 27	12	O/F	8	Whaler; cruiser stern;
Kaiko Maru Kaiun Maru	124 133	33 29	95 x 20 85 x 19		M	នន	Auxiliary sail.		<b>#</b> 5	341	38	133		O/F	8	Whaler; cruiser stern; government requisi-
Kaiyo Maru #1 GO	143	39	89 x 19		M	w	Trawler.	1	#7	340	38	133 x 27	12	O/F	8	Whaler: XPC.
Kamo Maru Karumo Maru	133 234	29 23	85 x 19 130 x 21 x 9	9	Ċ	. S S	Refrigeration m	nachin-	#8	340	38	133 x 27	12	O/F	ŝ	Whaler; cruiser stern;
Kaguga Mawi			110 - 00		ő	a	ery; fish carrie	er.	<b>#10</b>	240		199 07	10	0.07		XPC.
Keinan Maru	316	28	135 x 24	. 10	O/F	8	Trawler; XAN	A; re-	#10 #11	340 385	38 38	133 X 27	12	O/F	8	Whaler; APC. Whaler: cruiser stern:
28							frigeration m ery.	náchin- [	ζ.					- , -	-	government requisi- tion.

FISHING BOATS OVER 100 GROSS TONS

ONI 208-J-SUPPLEMENT 2 .

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ONI 208-J—SUPPL Division of Naval Intel	EMEN lligence	e	• CUMPRICE		FI	SHIN	G BOATS OVER 10	0 GROSS TONS	on ib	ned	1 A s	S A	MALI	ւ C	RAFT INDEX
Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	Name	Gross tons	Year built	Dimensions (ft.	) Speed (kts.)	Pro- pul- sion	later Jal	Remarks
Lien Yung	217	18	127.7 x 22.6		σ	s	Chinese trawler; re-	Reisui Maru	219	20	118 x 22	. 8.5	o o	8	Trawler; XAM.
Mamiya Maru	398	30	145 x 24	10	м	8	Trawler.	Rekkusa Maru	108	02	95. 2	8.5	σ	$\mathbf{s}$	Sloop; whaler; govern-
Meiji Maru	<b>2</b> 14	12	118.2 x 20.6	10	ō	8	Trawler; government								also known as Rex Maru
Meisho Maru	142	29	88 x 18		м	s	Trawler; XPP.	Rikuzen Maru	221	20	118 x 22	. 10	σ	s	Trawler; XAM; ma-
Mifuku Maru	161	35	98 x 20		м	s	XPP.	Dalaha Masu	~~~	10	110 - 00	10		a	chinery aft.
Minato Maru #2	224	12	118.2 x 20.6	10	С	s	Trawler; may be known as Milan	ROKKO Maru	220	19	118 X 22	. 10		8	known as Rokuko Maru.
Minomo Maru	473	32	150 x 25	9	м	8	Trawler; tpt. may be	Rumoe Maru	220	20	118 x 22	. 9	С	S	Trawler; XAM; gov- ernment requisition.
							known as Mitumo	Ryojun Maru	123	<b>2</b> 6	100 x 19	. 8		s	
							requisition.	Santoku Maru #2	146	31	95 x 20		м	8	XPP.
Misago Maru	154	31	110	10. 5		w	Fishing control and re-	Sanyo Maru	281	<b>3</b> 5	120 x 23	. 9	М	s	Cruiser stern; fish car- rier.
#1	265	20	193 v 99	Q	С	8	Trawler: XAM	Sanyo Maru	185	37	110 x 22	10		s	Fishing research vessel
#2	<b>26</b> 5	$\tilde{20}$	123 x 22	9	č	ŝ	Trawler; also reported as XPC.	Sapporo Maru	400	30	159 x 24	10	м	s	Trawler; government requisition.
#3	267	21	123 x 22	9	ç	s	Trawler; XAM.	Sasayama Maru #15	116	37	88 x 18			w	Fish carrier.
#8	281	22	123 x 22	9	0	8	Trawler; XAM.	Sassnu Maru	261	33	118 x 23		IVI	ø	erv: machinerv aft.
Musashi Maru	227	20	118 x 22	10	С	s	Trawler; machinery	Sazanami Maru	107	06	96 x 18	. 9	С	s	Whaler.
Nagato Maru	279	36	126 x 24	11.5	$O/\mathbf{F}$	s	Whaler; cruiser stern;	Seisho Maru	128	84	88 x 19	*		w	XPP 301; auxiliary fishing ketch.
Naruo Maru	216	22	118	8.5	С	8	Trawler; XAM.	Seiun Maru #5	146	38	93 x 19			W	
Nippo Maru	381	17	122 x 27		С	w	Schooner.	Seki Maru	298	37	129 x 24	. 12	M	8	Whaler; XAM.
Noshiro Maru #2 GO_	216	23	118 x 22	10	(aux.) C	8	Trawler; XAM; also	Seki Maru #2	360	38	139 x 25	. 13	M	8	chinery aft; cruiser
						-	Known as Nosiro Maru #2.	Seki Maru #3	304	38	130.1 x 25		O/F	8	Whaler; XAM; cruiser
Nunobiki Maru	219	20	118 X 22	8.5	U	8	Trawler.	Shikotan Maru	207	12	106 x 21	. 9	С	s	Whaler; ketch; ma-
Oi Maru #2	498	38	164 x 27	10	м	8	Trawler; cruiser stern Tpt.; refrigeration	Obielas Mary #1	100	07	01 - 10			137	chinery aft; govern- ment requisition.
04 <b>M</b>	000		110 00	10	~	đ	machinery.	Shinko Maru #1	129	31	81 X 19			ŶŸ	Reported as AFG.
Otowa Maru	220	20	118 X 22	10	0	8	known as Otoba	Shinko Maru #9	121		90 v 19			w	
							_Maru.	Shinwo Maru	235	37	117 x 23	10	M	s	Fishing training yes-
Ponapo Maru					····-		XPP.		200		11. A MO		(aux.)	~	sel; ketch.
Ranzan Maru	<b>2</b> 19	20	118 x 22	10	C	8	Trawler; XAM; also known as Arasiyama Maru.	Shiratori Mara	270	35	120 x 24	9.5	м	S	Fishing Regulation; cruiser stern; refrig- eration machinery.
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			and the same		12 A.		
Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Shoei Maru #8 GO Shonan Maru	125 417	37 31	88 x 16 151 x 27	10. 5		W S	Fishing control and re- search; government requisition.
Shonan Maru: #1	350	38	133 x 27	12.5	O/F	8	Whaler; cruiser stern;
#2	350	38	133 x 27	12.5	$\mathbf{O}/\mathbf{F}$	s	Whaler; cruiser stern;
#3	350	38	133 x 27	12.5	O/F	s	Whaler; cruiser stern; machinery aft; XPC.
#5	350	38	133 x 24	12.5	O/F	8	Whaler; cruiser stern; machinery aft; XPC.
#6	356	38	133 x 27	<b>12</b> . 5	O/F	S	Whaler; cruiser stern. machinery aft; XPC;
#7	356	38	133 x 27	12	O/F	s	Whaler; cruiser stern; machinery aft; XPC.
#8	355	38	133 x 27	12.5	O/F	8	Whaler; cruiser stern; machinery aft; XPC.
#10	350	38	133 x 2/	12. 5	0/1	ø	machinery aft; gov-
#11	<b>3</b> 50	38	133 x 27	12.5	O/F	8	Whaler; cruiser stern; machinery aft: XPC
#12	355	39	134 x 27	12.5	С	S	Whaler; machinery aft; cruiser stern: XPC.
#15	355	39	134 x 27	1 <b>2.</b> 5	С	S	Whaler; machinery aft; cruiser stern: XPC.
#16	355	40	133 x 27		C.	S	Whaler; XAM.
#17	356	40	133 x 26		$\mathbf{C}$	S	Whaler; XPC.
nowa Maru nowa Maru:	187	28	104 x 21	10	c	s	Whaler; XPC.
#2	194	30	108 x 22	11	0	s	whaler; XPC 243: cruiser stern.
#3	224	26	114 x 23	9	o	s	Whaler; XPC #632 or #554.
#5	220	24	111 x 23	10	С	S	Whaler; XPC.
#6	217	25	111 x 22	11	С	s	Whaler; XPC 261.
#7	264	36	124 x 24	12	σ	s	Whaler; XAM; ma- chinery aft.
#8	264	<b>3</b> 6	124 x 24	12	o	s	Whaler; XAM; ma- chinery aft.
#10	264	<b>3</b> 6	124 x 24	12	σ	s	Whaler; XAM; cruiser stern; machinery aft.
hunkotsu Maru	531	28	155 x 29	11		. 8	
oga Maru	247	20	120 x 22		C	S	Trawler.
onobe Maru	220	20	118 x 22	8.5	Č	ŝ	Trawler: XAM.
ovo Maru	202	25	112 x 21	8.5		ã	Fishing Regulation.
	202	40	114 A 41	0.0	·	. 0	r mung recentation.

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks			
Suiten Maru	131	34	89 x 19		M	s	Auxiliary ketch.			
Sumiyoshi Maru	114	34	92 x 19	8	C C	8	Fish carrier; govern-			
Suruga Maru	992	38	204 x 35	10	м	8	Trawler; Tpt.; cruiser stern; refrigeration			
Suwa Maru	112	07	95.3 x 18	8.7	σ	8	Sloop; whaler; govern-			
Taihei Maru	135	38	97.8 x 19.5		M	s	ment requiries.			
#1	107	04	94 x 18	9	ō	ŝ	Sloop; whaler; govern- ment requisition.			
#2	117	02	94.7 x 18		σ	8	Sloop; whaler, govern-			
Taihei Maru #1 GO	109	28	84 x 18		м	8	Fish carrier; may also be known as Taihei Maru			
Taito Maru	110	07	98.2 x 18	9	o	8	Whaler; sloop; XPC; also known as Taiso-			
Taiyo Maru	671	<b>3</b> 5	175.5 x 31	10	М	8	Trawler; refrigeration machinery; govern			
Taivo Maru	183	38	97 <b>x</b> 20			w	ment requisition.			
Takao Marii	220	20	118 x 22	8 5	0	s	Trawler: XAM			
Takasaro Marii	275	21	123 x 22	10	ŏ	š	Trawler: XAM			
Takasu Maru	126	23	85 x 19		, М		1100001, 111111.			
Takenoura	116	32	84 x 19		(aux.) (aux.)	8	Auxiliary fishing ketch; also known as			
Takunan Maru	156	36	101 x 20	8.5	<b></b>	w	Takeura Maru. Fish carrier; #259.			
#1	343	37	135 x 27	12	Ø	8	Whaler; XAM; ma- chinery aft; cruiser			
#2	343	37	135 x 27	12.5	o	8	Whaler; XPC or XAM; machinery			
#3	343	37	135 x 27	12,5	o	8	alt. Whaler; XAM; ma- chinery aft; cruiser			
#5	<b>34</b> 3	37	135 x 27	12.5	o	s	stern. Whaler; XPC or XAM; machinery			
#6	<b>34</b> 3	37	135 x 27	1 <b>2.</b> 5	σ	8	aft; cruiser stern. Whaler; XPC or XAM; machinery aft; cruiser stern.			

### ONI 208-J-SUPPLEMENT 2

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Division of Naval Intelligence

## FISHING BOATS OVER 100 GROSS TONS—Continued SMALL CRAFT INDEX

Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks	, j Name	Gross tons	Year built	Dimensions (ft.)	Speed (kts.)	Pro- pul- sion	Mater- ial	Remarks
Takunan Maru-Con.	242	27	125 - 07	10 F	a	a	Whelers XDC or	Tokiwa Maru	221	20	118 x 22	9	С	8	Trawler; government
#1	040	37	130 X 2/	12.0	U	ø	XAM; machinery	Toko Maru #2 GO	407	34	150 x 24	10	м	8	Trawler; refrigeration
#8	343	37	135 x 27	12.5	Ø	ន	Whaler; XPC or XAM; machinery								government requisi- tion; also known as
#10	343	37	135 x 27	12.5	O	ន	Whaler; XPC or XAM; machinery	Torishima Maru Toryu Maru	268 197	22 01	125 x 23 110 x 21	8.5	0 C	885	Trawler; XAM. Trawler; ketch.
Tama Maru	264	36	120 x 24	12	O/F	8	Whaler; reported as	Toshi Maru: Toshi Maru:	294	37	126 x 24	10.5	O/F	8	whater; XAM.
Tama Maru:	964	24	190 - 94	10	0/17	a	Whaler: eruiser stern:	#2 #3	294 299	37 37	126 x 24 126 x 24	10 12	O/F O/F	5 8	Whaler; XAM. Whaler; XPC; cruiser
#4	201	90	120 x 24	12	0/1	6	government requisi-	#5	299	37	126 x 24	12	O/F	8	stern. Whaler; XAM; cruiser
#3	258	36	120 x 24	12	0/F	8	Whaler; XAO; mine- sweeper; government requisition	#7	298	37	126 x 24	10	O/F	8	stern. Whaler; XAM; Ma- chinery aft; cruiser
<b>#5</b> #6	258 275	36 36	120 x 24 126 x 24	12 12	0/F 0/F	8 8	Whaler; XAM. Whaler; XAM; cruiser	#8	298	37	126 x 24	10	O/F	8	stern. Whaler; XAM; Ma- chinery aft; cruiser
<b>#</b> 7	275	36	126 x 24	11	O/F	s	Whaler; XAM; cruiser	Toyo Maru #9	·		<b></b>				stern. Reported as XPP.
#8	279	36	126 x 24	11	O/F	⁸ .	Whaler; XPC; cruiser stern.	Ujina Maru Urashima Maru	227 199	20 25	118 x 22 100 x 20 x 10.5	8.5 8 8 5	м	55	Trawler. Fish carrier.
Tamasono Maru: #1	313	20	125 x 23	10	С	8	Trawler: XAM.	Websburg Maru	224	20	112 x 22	0. J 10	0	g	Trawler: government
#2	316	20	125 x 23	ĩŏ	Ğ	8	Trawler; XAM.	Wakakusa Matu	220	20	110 & 22	10			requisition.
Tamura Maru	235	20	123 X 23	10	č	g	Trawler, XAM.	Wako Maru	136	30	109.6 x 19		M	W	
Tenkyo Maru	189	14	110 x 19 x 11		č	w	Sloop.	Yachiyo Maru #3	150	34	95 x 19.5		M	8	Trawler; XPP.
Tenyo Maru #2 GO	658	35	175.5 x 31	10	M	8	Trawler; XAP; refrig- eration machinery.	Yatsushiro Maru	398	30	159 x 24	10	M	8	requisition; also
Terukaze Maru	257	36	131 x 24	11	м	8	Fishery patrol; ma- chinery aft; cruiser stern; refrigeration	Yawata Maru	267	22	123 x 22	10	o	8	Maru. Trawler; government requisition.
Teshio Maru	398	30	159 x 24 x 12.5	10, 5	м	ន	Trawler; XAP.	Yoshino Maru Yuki Maru	220 389	20 29	118 x 22 135.4 x 24	8.5	C M	8 8	Trawler; XAM. Trawler.
#1	10 <b>7</b>	06	91 x 18	10	σ	8	Whaler; sloop; govern- ment requisition.	Zuiyo Maru	1 <b>30</b>	37	103 x 18	12	м	S	Fishing patrol; govern- ment requisition.
#2	111	02	94.8 x 18	8	o	8	Whaler; sloop; govern- ment requisition.								-







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